

20030725.qrp v02_n992.qrl.20030725

Date: Fri, 25 Jul 2003 19:03:06 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2992

QRP-L Digest 2992

Topics covered in this issue include:

- 1) [154850] Re: Noreaster Docs
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
- 2) [154851] re:Code Rqm't comment
by J.Bennett@lboro.ac.uk
- 3) [154852] Re: Code Rqm't comment
by w9ya <w9ya@arrl.net>
- 4) [154853] Re: Code Rqm't comment
by Bruce Muscolino <w6toy@erols.com>
- 5) [154854] Re: Noreaster Docs
by w9ya <w9ya@arrl.net>
- 6) [154855] Re: Code Rqm't comment
by w9ya <w9ya@arrl.net>
- 7) [154856] Code Practice Recommendations
by Chuck Adams <k7qo@commspeed.net>
- 8) [154857] Re: Code Rqm't comment
by Peter Burbank <peterlee@qx.net>
- 9) [154858] Re: Code Rqm't comment
by Richard Lim <richlim11@yahoo.com>
- 10) [154859] Fox - Summer Fox Hunt Teams Results.
by Bruce Rattray <rattray@gpfn.sk.ca>
- 11) [154860] IC-703 service manual is Icom part number 97714750
by "Bill, N4QA" <n4qa@hotmail.com>
- 12) [154861] Long shot... SMT diode
by Jason Hissong <jhisson1@columbus.rr.com>
- 13) [154862] Re: Code Rqm't comment
by "john gabbard" <johngabbard@usintouch.com>
- 14) [154863] Re: Making etched circuit boards ??? somewhat OT.
by Brad Thompson <Brad.Thompson@valley.net>
- 15) [154864] Next NJQRP meeting - August 9
by "Joe Everhart" <n2cx@voicenet.com>
- 16) [154865] Re: Long shot... SMT diode
by Ed Tanton <n4xy@earthlink.net>
- 17) [154866] Re: Long shot... SMT diode
by Jason Hissong <jhisson1@columbus.rr.com>
- 18) [154867] Re: Long shot... SMT diode
by "laura halliday" <marsgal42@hotmail.com>
- 19) [154868] Re: Long shot... SMT diode

- by "Leon Heller" <leon_heller@hotmail.com>
- 20) [154869] Argo 5 TCX0
by "Dave" <frstbaptistchurch@wyoming.com>
- 21) [154870] Re: Long shot... SMT diode
by "Leon Heller" <leon_heller@hotmail.com>
- 22) [154871] First 50000MPW and other QRPp adventures
by Jason Hissong <jhisson1@columbus.rr.com>
- 23) [154872] on line lic reg...
by hamjoel@juno.com
- 24) [154873] Re: Wein Bridge question. (fwd)
by Jeff Furman <jfurman@ocs.net>
- 25) [154874] Re: [154795] UK Licencing changes - my thoughts
by "Julian (G4ILO)" <g4ilo@qsl.net>
- 26) [154875] MFJ Cub 20m drift problem
by "Julian (G4ILO)" <g4ilo@qsl.net>
- 27) [154876] Re: Long shot... SMT diode
by "Jack Bennett" <J.Bennett@lboro.ac.uk>
- 28) [154877] Re: Argo 5 TCX0
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
- 29) [154878] Re: on line lic reg...
by "Mike Yetsko" <myetsko@insydesw.com>
- 30) [154879] Re: Code Rqm't comment
by Alex <kr1st@amsat.org>
- 31) [154880] Re: Code Rqm't comment
by Bruce Muscolino <w6toy@erols.com>
- 32) [154881] Simple SSB transceiver and 60M
by Chuck Ludinsky <cjl@mitre.org>
- 33) [154882] Re: PIC Elmer Series?
by David Shalita <davidr@cnmnetwork.com>
- 34) [154883] Re: Making etched circuit boards ??? somewhat OT.
by Bruce Muscolino <w6toy@erols.com>
- 35) [154884] RE: Code Rqm't comment
by "Steve Blary" <steve@eclipsecat.com>
- 36) [154885] Re: MFJ Cub 20m drift problem
by Bruce Muscolino <w6toy@erols.com>
- 37) [154886] Re: on line lic reg...
by "John Paul Keon" <jpkeon@nc.rr.com>
- 38) [154887] RE: Code Rqm't comment
by "Mike D." <hrg@cifnet.com>
- 39) [154888] re:Success with frequency specific dipoles?
by Michael Babineau <michael.babineau@sympatico.ca>
- 40) [154889] CB/WX band combination whip great price at store
by ve3ab@mail.mondenet.com
- 41) [154890] My take on CW
by "Brian Murrey - KB9BVN" <brian@iquest.net>
- 42) [154891] Re: Code Rqm't comment
by "John_K7FD" <john_k7fd@cablespeed.com>
- 43) [154892] Distributed Capacitance Dipole??

by ARDUJENSKI@aol.com

44) [154893] Re: [ham] Re: Code Rqm't comment
by KD5NWA <kd5nwa@cbayona.com>

45) [154894] Re: Code Rqm't comment
by donovanhoggan@netscape.net

46) [154895] HF without CW test available from tomorrow in UK
by "Leon Heller" <leon_heller@hotmail.com>

47) [154896] Re: CB/WX band combination whip great price at store
by "Mike Yetsko" <myetsko@insydesw.com>

48) [154897] Re: Long shot... SMT diode
by Ed Tanton <n4xy@earthlink.net>

49) [154898] Re: Code Rqm't comment
by "Mike Yetsko" <myetsko@insydesw.com>

50) [154899] Re: Code Rqm't comment
by "john gabbard" <johngabbard@usintouch.com>

51) [154900] Re: My take on CW
by Garie Halstead K8KFJ <khyberpass65@yahoo.com>

52) [154901] Re: on line lic reg...
by Steven Weber <kd1jv@moose.ncia.net>

53) [154902] Glue and toroids
by "Jim Stamper" <jstamper@shentel.net>

54) [154903] Re: Code Rqm't comment
by Garie Halstead K8KFJ <khyberpass65@yahoo.com>

55) [154904] Re: Code Rqm't comment
by "john gabbard" <johngabbard@usintouch.com>

56) [154905] CO All QRP
by Larry Cahoon <lejek@erols.com>

57) [154906] 38 Special-warble
by Marv Fagenson <k6hcj@juno.com>

58) [154907] Re: Glue and toroids
by Ed Tanton <n4xy@earthlink.net>

59) [154908] Re: Glue and toroids
by "Lee Mairs" <lmairs@direcway.com>

60) [154909] frequency specific dipoles
by Stevenu7t@aol.com

61) [154910] Re: on line lic reg...
by Philip L Carter <pcarter@gcfn.org>

62) [154911] Re: Glue and toroids
by Dale Botkin <dale@botkin.org>

63) [154912] Re: MFJ Cub 20m drift problem
by Lew Paceley <lew@paceley.com>

64) [154913] Re: Glue and toroids
by w9ya <w9ya@arrl.net>

65) [154914] Re: My take on CW
by "Brian Murrey - KB9BVN" <brian@iquest.net>

66) [154915] Re: Code Rqm't comment
by "Brian Murrey - KB9BVN" <brian@iquest.net>

67) [154916] Re: Glue and toroids

by "Brian Murrey - KB9BVN" <brian@iquest.net>
68) [154917] ON LINE REG... :-)
by hamjoel@juno.com
69) [154918] Re: My take on CW
by Garie Halstead K8KFJ <khyberpass65@yahoo.com>
70) [154919] CW AN'T THEP ROBLEM...
by hamjoel@juno.com
71) [154920] RE: My take on CW
by "Lyle Johnson" <wa7gxd@fidalgo.net>
72) [154921] Re: Glue and toroids
by J.Bennett@lboro.ac.uk
73) [154922] Re: 38 Special-warble
by Curt Milton <wb8yyy@yahoo.com>
74) [154923] RE: My take on CW
by Robin Kidd <robink@us.ibm.com>
75) [154924] RE: My take on CW (quit the club after much frustration)
by "Terry Permenter" <top@whidbey.com>
76) [154925] RV: PIC Elmer Series?
by "Francisco Hernandez Alonso" <co2ha@jovenclub.cu>
77) [154926] Re: Making etched circuit boards ??? somewhat OT.
by David Hinerman <WD8CIV@worldnet.att.net>
78) [154927] FOR SALE UPDATE
by Michael Goins <mgoins@usa.net>
79) [154928] Re: Making etched circuit boards ??? somewhat OT.
by Brad Thompson <Brad.Thompson@valley.net>
80) [154929] RE: My take on CW (quit the club after much frustration)
by "John L. Sielke" <jsielke@pobox.com>
81) [154930] Re: on line lic reg...
by Steven Weber <kd1jv@moose.ncia.net>
82) [154931] PIC Elmer Series
by "Harley Miller" <hmiller106@kc.rr.com>
83) [154932] RE: Making etched circuit boards ??? somewhat OT.
by "Lyle Johnson" <wa7gxd@fidalgo.net>
84) [154933] FM beacon transmitter
by "Nick Foster" <nfooster@bluefinrobotics.com>

Date: Thu, 24 Jul 2003 16:12:50 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: w9ya <w9ya@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154850] Re: Noreaster Docs
Message-ID: <Pine.OSF.4.53.0307241612240.81959@duke.usask.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

You could try

<http://www.qrpp.com/noreaster.html>

On Wed, 23 Jul 2003, w9ya wrote:

> Hey Gang !
>
> I am the fortunate recipient of a "brand new" Noreaster kit. However the docs
> seem to not have the schematics and parts placement drawings and possibly
> others are missing. I do have pages numbered 1 -10 inclusive.
>
> Does anyone have a copy of these docs I can get ?
>
> 72 ;
>
> Bob
> w9ya
>
>

Brian Buydens
Veterinary Electronic Data Specialist
Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
<http://duke.usask.ca/~buydens>
VE5RDV

I am a proud citizen of "Soviet Canuckistan"

Date: Thu, 24 Jul 2003 23:17:11 +0100 (BST)
From: J.Bennett@lboro.ac.uk
To: donovanhoggan@netscape.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [154851] re:Code Rqm't comment
Message-ID: <1059085031.3f205ae79c359@staff-webmail.lboro.ac.uk>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 8bit

Hi Donovan,

With determination like that you are bound to succeed. Stick at it mate and more power to your elbow. You can count on the respect and support of your fellows and peers.

With kind regards and 72,

Jack.
G3PVG

Quoting donovanhoggan@netscape.net:

> Hi all,
>
> I hate to be the one dissenting voice, but I can't agree. Putting on a
> uniform, or memorizing a tradition is not an accurate parallel. These
> are fairly straightforward and quickly learned. I know there are some
> who have mastered CW in an evening (or at least reached the 5wpm level),
> but I am not one of them. I don't learn very well at all through my
> ears and I'm having an awful time. I've been working on it more-or-less
> daily for about three months now and I've still only got 1/2 of the
> alphabet.
>
>

Date: Thu, 24 Jul 2003 22:26:40 +0000
From: w9ya <w9ya@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [154852] Re: Code Rqm't comment
Message-ID: <200307242226.40200.w9ya@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

I like Model Ts

Bob

On Thursday 24 July 2003 09:57 pm, John L. Sielke wrote:

> > I am all for tradition and initiation rites, can't we pick something that
> > is a little more accessible? I think this is the >equivalent of

> > requiring someone to crank-start an old Model "T" to get his driver's
> > license.
>
> Hey! That's a GREAT idea. Think of the reduction in traffic. AND, someone
> who REALLY wanted to drive, would learn how to crank start that old Model
> T, I bet!
>
> John W2AGN

Date: Thu, 24 Jul 2003 18:29:01 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: w9ya@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154853] Re: Code Rqm't comment
Message-ID: <3F205DAD.7A39F8C8@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

There have been advertisers since the dawn of ham radio. Many of them
manufactured AM phone rigs, or SSB rigs. They failed to sway the FCC
opinion on Cw until a few years ago. If we take that as a model, we
will see the eventual elimination of a CW requirement about 2090.

73

Date: Thu, 24 Jul 2003 22:32:14 +0000
From: w9ya <w9ya@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154854] Re: Noreaster Docs
Message-ID: <200307242232.14753.w9ya@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Outstanding !!

Thanxs ever so much for the resource.

VY 72;

Bob
w9ya

On Thursday 24 July 2003 10:12 pm, you wrote:

```
> You could try
>
> http://www.qrpp.com/noreaster.html
>
> On Wed, 23 Jul 2003, w9ya wrote:
> > Hey Gang !
> >
> > I am the fortunate recipient of a "brand new" Noreaster kit. However the
> > docs seem to not have the schematics and parts placement drawings and
> > possibly others are missing. I do have pages numbered 1 -10 inclusive.
> >
> > Does anyone have a copy of these docs I can get ?
> >
> > 72 ;
> >
> > Bob
> > w9ya
>
> Brian Buydens
> Veterinary Electronic Data Specialist
> Computing Services, University of Saskatchewan
> email: Brian.Buydens@usask.ca
> http://duke.usask.ca/~buydens
> VE5RDV
>
> -----
> I am a proud citizen of "Soviet Canuckistan"
```

```
-----
Date: Thu, 24 Jul 2003 22:57:19 +0000
From: w9ya <w9ya@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154855] Re: Code Rqm't comment
Message-ID: <200307242257.19539.w9ya@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
```

Yeah, but the advertisers relatively recently (last 10 years or so) decided

that the CW requirement was hindering their sales potential. This was made very clear at the aforementioned meeting. And then "the rock rolled down the hill", in as much as the ARRL then changed its long-standing policy about code. i.e. It is NOT advertiser to FCC directly that we were talking about when I responded to a previous email where the author had spoke about the ARRL's influence at the FCC etc and how that played into any changes in licensing.

Bob
w9ya

On Thursday 24 July 2003 10:29 pm, you wrote:

> There have been advertisers since the dawn of ham radio. Many of them
> manufactured AM phone rigs, or SSB rigs. They failed to sway the FCC
> opinion on Cw until a few years ago. If we take that as a model, we
> will see the eventual elimination of a CW requirement about 2090.
>
> 73

Date: Fri, 25 Jul 2003 00:16:46 +0100
From: Chuck Adams <k7qo@commspeed.net>
To: michael.babineau@sympatico.ca,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154856] Code Practice Recommendations
Message-ID: <5.2.1.1.0.20030724235258.00b25028@mail.commspeed.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 11:02 AM 7/24/2003 -0400, Michael Babineau wrote:

<<<SNIP>>>

>This is great timing for me. I just picked up a Sonic RIO 600 32Mb MP3 Player
>(refurbished) for \$40US on eBay. With the multi-gigabyte capacity players
>now available these 32Mb players are virtually obsolete for music, but they
>are perfectly suited for code practice. I'm getting a little tired of my MFJ
>Morse Code Tutor (it is a little predictable at times).
>
>Also for anyone not aware, ARRL has MP3 format W1AW code practice files
>available on the Web.
>
>Michael VE3WMB

If you access to a Fry's Electronics (I do not work for them, but I do support them with my purchases :-)), and you want to do CDDA and MP3 audio, then I recommend something like the Panasonic SL-SX420 MP3 player. On sale aperiodically for \$29.99 but on sell regularly for \$39.99. And almost daily there seems to be a new version of MP3 player coming out from any number of sources. They will get cheaper but why wait??

Target I know carries the Panasonic at the \$39.99 price and they have the Canon A70 Power Shot digital camera that was reviewed recently on this list.

The Panasonic is circular in shape, fairly light, and it runs a long time on 2 AA 2000mAh NiMH batteries. It has a cable extension that has volume and other controls on it so that you can change tracks, directories for MP3, etc. with a small tube like control with buttons on the earphone cable....

I am able to put at least 11 or so CDDA discs ripped to MP3 audio on a single 700MB CD disc and if you want you can use the CD-R/W CDs also in the Panasonic.

I have one of the small irock MP3 players but find that even 32MB of storage just isn't enough to give me flexibility of choice for listening that I get from the larger format. 700MB vs 32MB to me is a no brainer..... IMHO Even with the size differences in the players.

I'd put MP3 files on the web but I'm sure that qsl.net would not appreciate me using several hundred megabytes of disc space. If some one has an online disc that they want to do this for me, send me email and I'll put the 20-35WPM code course there next week..... I'll need almost 600MB and we can ftp it at almost T1 speeds if you can match that speed on your end..... I don't know if Jim, the list owner, has that much space available. He'll let me know if he does. Manual is in PDF format.

Chuck Adams K7QO k7qo@commspeed.net
<http://www.qsl.net/k7qo> CP-60

Date: Thu, 24 Jul 2003 19:36:43 -0400
From: Peter Burbank <peterlee@qx.net>
To: kd7snx@earthlink.net,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154857] Re: Code Rqm't comment
Message-ID: <5.2.0.9.0.20030724180658.009fc170@mail.qx.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 03:44 PM 7/24/2003, KD7SNX Rob. C wrote:

>I myself and studying for the code. I am almost done too! It is really
>simply if you just sit down and make it a game! I am going to try to pass
>the test a tuthill 2003, but I am having trouble with the numbers.

Rob,

The numbers are easy. They are like stair steps 5 up and 5 down. Just draw a picture (like a pyramid) and put in the characters on each step. It makes a lot of sense if you can visualize code in this way. The first step is 1 and the last is 0. Hang the picture up in the "blue room" for a few days and you will have the numbers in your head.

This may not work for everyone but it did work for myself and my son..

73 Pete NV4V

Date: Thu, 24 Jul 2003 19:00:32 -0500
From: Richard Lim <richlim11@yahoo.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [154858] Re: Code Rqm't comment
Message-ID: <BB45DD50.457D%richlim11@yahoo.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

I'm a relatively new ham, been licensed only for 18mo. I passed the 5 WPM code requirement and thought that I'd never use it again. Since then, I have upgraded to Extra and have become FASCINATED by CW. To me this is what Ham radio is really all about. You cannot get a more purist form of communication via RF than CW. I am working diligently to improve my code and have found most, unfortunately not all :-(ops, willing to QRS to my speed. I personally think it is a shame not to have a code requirement, after all if I did not have to learn it, I probably never would have developed my current fascination with the code. Just my two cents.

Rich
KQ9L

On 7/24/03 6:36 PM, "Peter Burbank" <peterlee@qx.net> wrote:

> At 03:44 PM 7/24/2003, KD7SNX Rob. C wrote:

>
>> I myself and studying for the code. I am almost done too! It is really
>> simply if you just sit down and make it a game! I am going to try to pass
>> the test a tuthill 2003, but I am having trouble with the numbers.
>
> Rob,
> The numbers are easy. They are like stair steps 5 up and 5 down. Just draw
> a picture (like a pyramid) and put in the characters
> on each step. It makes a lot of sense if you can visualize code in this
> way. The first step is 1 and the last is 0. Hang the picture
> up in the "blue room" for a few days and you will have the numbers in your
> head.
> This may not work for everyone but it did work for myself and my son..
> 73 Pete NV4V
>
>

Date: Thu, 24 Jul 2003 18:35:05 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-l@LeHigh.EDU>
Subject: [154859] Fox - Summer Fox Hunt Teams Results.
Message-ID: <Pine.LNX.4.33.0307241833170.2450-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt #13 - N2WW -

The Cajun Thunder - 38

The Cheeseheads - 0

Wayne - K5E0A

Jerry - N9AW

Vern - AA50 *

Rick - NK9G

Wayne - N5YFC *

Jim - WA9TZE

Jim - N5IB

Gary - W9XT

Mike - VA6MJT

and one more.

The NE-TX Tornados - 54

Lew - N5ZE *

Joe - KK5NA *

Wayne - W5KDJ *

Doc - W5TB

George - W5YR *

...any corrections, please e-mail me direct...72 - Bruce (VE5RC+VE5QRP)

Date: Thu, 24 Jul 2003 21:07:30 -0400
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [154860] IC-703 service manual is Icom part number 97714750
Message-ID: <BAY1-F73aiVklUVhjNI00003acb@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi, gang.

Received an email today from the folks at Icom.

The Icom part number for the IC-703 service manual is 97714750.

Mine will be on its way here shortly.

Quoted price is \$44.00 plus \$6.00 S/H.

My current contact at Icom is:

EllenPardee@IcomAmerica.com

Rig troubles or no, I would have ordered the service manual because I like to learn a little bit about each piece of gear which I own.

Almost made a RTTY contact with the '703 this evening.

While the rig was putting out full power...10 watts... I hammered out a few RTTY CQs.

One station came on at idle for a few seconds after two or three successive CQs but never did give a callsign...no prob.

I was again 'printing' my own transmissions via the TS-440S and a second PC running JE3HHT's MMTTY ver 1.65 . WM-2 displaying output 10 watts forward power, 0 reflected.

This week, I've spent a few hours getting acquainted with the '703's innards and have at least narrowed the search for the transmitter troubles to the PWB on the underside of the rig.

One of two main PWBs in the rig, this 'underside board' appears to contain transmitter driver, bandpass circuits, pa, the A/T etc. Using my trusty (and aging) Kenwood CS-5130 'scope, I found a 'test point' where the low-level transmitter carrier signal coax comes down from the 'topside board'. This signal is stable during transmit even while the power output swings back and

forth between 10 mW & 10 W.

Plus, I have good control of the amplitude of this signal via the rig's 'Q1 RF POWER' menu & main knob.

The '703 construction is solid. The workmanship superb...though most of the PWBs' parts placement is, no doubt, done by an automated HSP (High-Speed-Placement) machine.

I'll be so proud of this little box once I've returned its transmitter to 'fully-operational' status :)

73.

Bill, N4QA

<http://www.n4qa.com>

The new MSN 8: advanced junk mail protection and 2 months FREE*
<http://join.msn.com/?page=features/junkmail>

Date: Thu, 24 Jul 2003 21:44:24 -0400
From: Jason Hissong <jhisson1@columbus.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154861] Long shot... SMT diode
Message-ID: <3F208B78.5010704@columbus.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Hi guys,

I know this is a long shot, but I am trying to get a GPS receiver working. The GPS receiver was for a Palm III but the antenna does not seem to work very well. ANYways, I was drilling a hole in the plastic case for a BNC connector and the drill slipped (I know, dumb for me to drill in close proximity to the board!!). The chip that came off says A475 and has a bar on one end of it. So I assumed it is a diode. Anyone know what type of diode that would be? I am thinking I may be able to replace it with a regular diode.

Anyways.. thought I would try...

Thanks guys..

Jason Hissong
N8XE

Date: Thu, 24 Jul 2003 18:52:27 -0700
From: "john gabbard" <johngabbard@usintouch.com>
To: <richlim11@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154862] Re: Code Rqm't comment
Message-ID: <001d01c3524f\$6785ecb0\$e8811c0c@john>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hang in there Rich, the speed will come to you. you made the right
decision.and thanks, you'll see later what I mean...73 John KF70M

----- Original Message -----

From: "Richard Lim" <richlim11@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Thursday, July 24, 2003 5:00 PM
Subject: Re: Code Rqm't comment

> I'm a relatively new ham, been licensed only for 18mo. I passed the 5 WPM
> code requirement and thought that I'd never use it again. Since then, I
have
> upgraded to Extra and have become FASCINATED by CW. To me this is what
Ham
> radio is really all about. You cannot get a more purist form of
> communication via RF than CW. I am working diligently to improve my code
> and have found most, unfortunately not all :-(ops, willing to QRS to my
> speed. I personally think it is a shame not to have a code requirement,
> after all if I did not have to learn it, I probably never would have
> developed my current fascination with the code. Just my two cents.
> Rich
> KQ9L
>
>
> On 7/24/03 6:36 PM, "Peter Burbank" <peterlee@qx.net> wrote:
>
> > At 03:44 PM 7/24/2003, KD7SNX Rob. C wrote:
> >
> >> I myself and studying for the code. I am almost done too! It is really
> >> simply if you just sit down and make it a game! I am going to try to
pass
> >> the test a tuthill 2003, but I am having trouble with the numbers.
> >
> > Rob,

> > The numbers are easy. They are like stair steps 5 up and 5 down. Just draw
> > a picture (like a pyramid) and put in the characters
> > on each step. It makes a lot of sense if you can visualize code in this
> > way. The first step is 1 and the last is 0. Hang the picture
> > up in the "blue room" for a few days and you will have the numbers in your
> > head.
> > This may not work for everyone but it did work for myself and my son..
> > 73 Pete NV4V
> >
> >
>
>
>

Date: Thu, 24 Jul 2003 22:05:14 -0400
From: Brad Thompson <Brad.Thompson@valley.net>
To: kb7www@easystreet.com,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154863] Re: Making etched circuit boards ??? somewhat OT.
Message-ID: <5.0.2.1.2.20030724214859.01b48b50@pop3.norton.antivirus>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello--

Take a look at the services offered by ExpressPCB and PCB123 at their web sites. Both offer free (but proprietary-format)schematic-capture and PC-board layout software, and also relatively low prices on small quantities of prototype boards.

For example, ExpressPCB offers three double-sided 2-inch by 3-inch (approx.) PC boards for \$62.00 postpaid. You send your layout via the internet and a credit-card number, and ExpressPCB makes the boards; there's no silkscreen or solder mask, but the boards have plated-through holes-- a necessity for longevity and ease of component replacement.

How much circuitry can you get on a small board? Quite a bit if you mix surface-mount and conventional through-hole components! I've done three designs so far-- two actually were "minipanel" featuring three circuit boards on

one panel.

For example, one contained a whip-antenna preamp, its termination network, and a simple low-voltage power supply.

Drawbacks include lack of a silkscreen or solder mask (although these are available for extra charges) and proprietary layout-software formats. Also, I believe but haven't checked fully that medium-size quantities of, say, 10 to 40 pieces would cost less when purchased from a conventional PC-board fab house. You'd need another layout package to produce the design, though.

Advantages include good boards every time, no chemicals to store or dispose of, no drilling (hence no fiberglass dust) and the option to scale up to larger production quantities with no difficulties.

Both ExpressPCB and PCB123 offer custom-designed components in addition to their libraries, so you can easily add nonstandard parts.

i have no financial interest in either company, but as a satisfied user I've had very good results with ExpressPCB's services.

73--

Brad AA1IP

At 09:58 PM 07/24/2003 +0000, Arthur Moe wrote:

>All,

>

>I thought that this would be the list to ask this question on because of all
>the builders that are here.

>

>I am about to start a new HV power supply project for a 432 Mhz amplifier. In
>the past I have used PERBOARD from Radio Shack to mount diodes, filter
>capacitors strings, and equalizing resistors. Well I now feel its time to join
>the 20th century and start making one off etched circuit boards, to mount
>components on. Would there be someone who would like to recommend a quick and
>dirty method.

>

>

>Art

>KB7WW

Date: Thu, 24 Jul 2003 23:09:25 -0400
From: "Joe Everhart" <n2cx@voicenet.com>
To: "njqrp" <njqrp@njqrp.org>
Cc: "qrpl" <qrpl@lehigh.edu>
Subject: [154864] Next NJQRP meeting - August 9
Message-ID: <000f01c3525a\$281e1420\$bc2f67cf@n2cxtoy>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Group,

Sorry for the recent lack of communication. Vacations and other things really conspired to overload us.

Scheduling things during the summer is really difficult but it really is high time we thought about an NJQRP meeting.

Sooo.... what we propose is a single summer meeting this year on August 9th. the time and place will be same as before, the Forrestal Center off Rt 1 in Princeton, NJ. And the time will be the usual 9-9:30 am of whenever you can show up.

While, as usual there is no fixed agenda, we do have a number of things to talk about concerning NJQRP and how it fits in with the new American QRP Club. You have probably noticed the crosslinked and merged content between NJQRP and NORCAL - we'll have more to say about that and other exciting new happenings.

We can't promise it, but we just may have a surprise coming up with a slick new design based on James Bennett's clever award-winning PAC-12.

And we hope to be able to have a special project just for those attending the meeting!

So please plan on coming out to see what's going on and who has new goodies and projects. Bring along your show and tell stuff and any excess parts that you want to share or swap with the rest of us.

See you there on the 9th!

Joe, N2CX and George, N2APB
for the NJQRP and AmQRP clubs.

Date: Thu, 24 Jul 2003 23:41:28 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: jhisson1@columbus.rr.com, qrp-L Reflector <qrp-l@lehigh.edu>
Subject: [154865] Re: Long shot... SMT diode
Message-ID: <5.2.1.1.2.20030724232854.02b79058@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi Jason... the best reference I know of for decoding SMT markings is:
<<http://www.tkb-4u.com/code/smdcode/smdcodeA.php>> . However, they do not
list an "A475"...

BUT I'd sure try a 1N4148 and see what happens. I got the impression it was
a simple-'two terminal' diode case.

P.S. That SMT Markings Magic Decoder Ring URL was thanks to David Snowdon
<norway@passport.ca> here on QRP-L, back in NOV 2002-and still works just fine.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."
--Mark Twain

Date: Thu, 24 Jul 2003 23:49:32 -0400
From: Jason Hissong <jhissong1@columbus.rr.com>
To: Ed Tanton <n4xy@earthlink.net>
Cc: qrp-L Reflector <qrp-l@Lehigh.EDU>
Subject: [154866] Re: Long shot... SMT diode
Message-ID: <3F20A8CC.8000604@columbus.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Thanks Ed. At this point, I have nothing to lose. It is junk anyway.

Thanks guys!

Jason
N8XE
<http://www.qsl.net/n8xe>

Ed Tanton wrote:

> Hi Jason... the best reference I know of for decoding SMT markings is:
> <<http://www.tkb-4u.com/code/smdcode/smdcodeA.php>> . However, they do not
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>
> BUT I'd sure try a 1N4148 and see what happens. I got the impression it
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>
> Ed Tanton N4XY
> 189 Pioneer Trail
> Marietta, GA 30068-3466
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>

> All emails <IN> & <OUT> checked by
> Norton AntiVirus with AutoProtect
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> Congress... but I repeat myself."
> --Mark Twain
> -----
>
>
>

Date: Thu, 24 Jul 2003 21:05:26 -0700
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [154867] Re: Long shot... SMT diode
Message-ID: <BAY9-F22Qv30ijLe7Zn00004015@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Jason N8XE asked about a two-leaded device with a
band at one end labeled "A475"...

Check where in the circuit it came from. Odds are you'll
find it's a 10 volt ("A") 4.7 uF ("475") electrolytic
capacitor. There are several excellent lists of component
markings floating around. Try doing a search. Hell, try
typing in "A475" and see what you get (I did).

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89mg pied a terre..."
ICBM: 49 16.05 N 122 56.92 W - Hospital/Shafte

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Date: Fri, 25 Jul 2003 04:09:27 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: jhisson1@columbus.rr.com, qrp-1@Lehigh.EDU
Subject: [154868] Re: Long shot... SMT diode
Message-ID: <Law15-F77DJLv8p7qNC00007d9a@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Jason Hissong <jhisson1@columbus.rr.com>
>Reply-To: jhisson1@columbus.rr.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Long shot... SMT diode
>Date: Thu, 24 Jul 2003 21:44:24 -0400

>
>Hi guys,
>
>I know this is a long shot, but I am trying to get a GPS receiver working.
>The GPS receiver was for a Palm III but the antenna does not seem to work
>very well. ANYways, I was drilling a hole in the plastic case for a BNC
>connector and the drill slipped (I know, dumb for me to drill in close
>proximity to the board!!). The chip that came off says A475 and has a bar
>on one end of it. So I assumed it is a diode. Anyone know what type of
>diode that would be? I am thinking I may be able to replace it with a
>regular diode.
>

Can't you solder it back in?

You should be able to check the diode voltage drop with a DVM and see if it
a standard Si one, or a Shottky.

They probably buy standard components with their own marking on them. I'd
simply try a standard diode.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 423947
Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller

Stay in touch with absent friends - get MSN Messenger
<http://www.msn.co.uk/messenger>

Date: Thu, 24 Jul 2003 22:00:28 -0600
From: "Dave" <firstbaptistchurch@wyoming.com>
To: qrp-1@lehigh.edu
Subject: [154869] Argo 5 TCX0
Message-ID: <web-51356449@wyoming.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"; format="flowed"
Content-Transfer-Encoding: 8bit

Considering the factory specs on stability of 20 ppm, what improvement will I get with the TCX0?

Thanks

Dave K8BBM

Date: Fri, 25 Jul 2003 04:09:30 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: jhisson1@columbus.rr.com, qrp-1@Lehigh.EDU
Subject: [154870] Re: Long shot... SMT diode
Message-ID: <Law15-F67oZF9byABeB00007e20@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Jason Hissong <jhisson1@columbus.rr.com>
>Reply-To: jhisson1@columbus.rr.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Long shot... SMT diode
>Date: Thu, 24 Jul 2003 21:44:24 -0400
>
>Hi guys,
>
>I know this is a long shot, but I am trying to get a GPS receiver working.
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>diode that would be? I am thinking I may be able to replace it with a
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They probably buy standard components with their own marking on them. I'd simply try a standard diode.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 423947

Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

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Date: Fri, 25 Jul 2003 00:01:07 -0400
From: Jason Hisson <jhisson1@columbus.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154871] First 50000MPW and other QRPP adventures
Message-ID: <3F20AB83.9060304@columbus.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Hi guys,

I just worked a station in Greece and I cranked "down" the power to 100mW (according to the K2 display) My logging program estimated that it was about 5330 miles away from Central Ohio. $5330/.1 = 53300\text{MPW}$! Wow!

I was recently on the phone with a good ham friend that lives down the street. FO/G35WH/P was on 17M. Jack, WB8FSV, will call me up when he hears DX calling. So while I was on the phone with him, I bagged the FO station. I proceeded to inform him that I was running 500mW! I told him he needs to turn down his power ;) He says life is too short for QRP... anyways... we like to pull each others leg sometime.

I was thinking of replacing the last remaining leg of my coax to LMR400 (I have about 100 feet not being used). It is about 50 feet of RG8X right now to my remote switch box and then I have about 75 feet of LMR400 going to the Hexbeam (at 32'). Will replacing that wire help significantly (when dealing with <1W)?

Anyways... having a good time tonight with QRPP levels.

I also worked EU7SA with a "full gallon" of 1000mW on PSK31.

This is so much fun... any good attenuators schematics available online?

71/72/73 guys... thanks for listening.

Jason Hissong
N8XE
<http://www.qsl.net/n8xe>

Date: Fri, 25 Jul 2003 05:09:04 GMT
From: hamjoel@juno.com
To: fpqrp-l@mpna.com, qrp-l@Lehigh.EDU
Subject: [154872] on line lic reg...
Message-ID: <20030724.220910.490.181089@webmail15.lax.unttd.com>
Mime-Version: 1.0
Content-Type: text/plain

haaaalllllppppppp
i tried for over 2 hours to figure this on line thing out...
seems I have one cores for some licence or other
however I did not see one listed with my ham licence..
and what's this password thing?
confused in maine
trying to save \$6.00

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Date: Thu, 24 Jul 2003 23:13:05 -0700 (PDT)
From: Jeff Furman <jfurman@ocs.net>
To: Nick Kennedy <nkennedy@tcainternet.com>
Cc: banner <banner@texhoma.net>, qrp-1@lehigh.edu
Subject: [154873] Re: Wein Bridge question. (fwd)
Message-ID: <Pine.LNX.4.21.0307241943310.19536-100000@ocs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Nick, when I used Microcap version 7, I got v_{be} for the input transistor as 0.489v and the second transistor as 0.645v. the first transistor works at a very low current, so, there is less v_{be} . The voltage of the second transistor's collector is 3.15v with a supply voltage of 9v. The first transistor's base is at 1.5v, as expected if the base current is very small. I invariably first set the supply voltage to the wrong polarity since the battery symbol isn't marked, so, check that.

This is a very common two stage amplifier; with silicon transistors, you can get away without a resistor across the second transistor's base-emitter junction, since the leakage of both transistors is so low. A resistor here has essentially fixed voltage across it and it can be designed to set the collector current in the first transistor, since v_{be} /this resistor is the collector current. For relatively low bandwidth, audio stuff, the starved operation here works okay. If you squint at this amplifier just right, you can notice it is an upper half of the current feedback opamp. The missing lower half is essentially a mirror image with the npn and pnp transistors exchanged and some level shifting transistors added to allow both halves to be connected in tandem.

The netlist was pasted from the simulator's file; I labeled the cbe connections (are they okay?) since the diodes are back to back, there's no need to label them. I admit I don't have a breadboard with these values on it; I have made a few of these oscillators over the years since 1970, however.

The oscillation is evident in the transient analysis when the maximum step size is $1e-7$ sec. with initial conditions set to zero, and no operating point evaluated. If you run the simulation for 100ms or 0.1 sec, you see the initial large amplitude oscillation gradually reduce to a constant, smaller value, I get about 0.26vp-p. I goofed when I estimated the frequency, it is 1-1/4 cycles per ms. (my brain turned this into 1-1/4 ms period) which is greater than 1kHz, about 1250Hz.

I find that the step size, the initial conditions, and the operating point parameters are the most critical to adjust to obtain a credible transient analysis result. If the step size is too large, the cumulative errors in the solution produce an almost worthless answer. One thing I notice is that after a certain size that depends on the problem, reducing the step size doesn't improve the appearance of the plots; it just takes longer to

complete the calculations. I sometimes start at $1e-12$ and perhaps jump up by a few orders of magnitude, for successive runs, searching for this point. The initial conditions are sometimes critical to getting an oscillator to start; if the operating point (dc bias) is calculated, and all the capacitors are precharged so their voltages correspond to this dc state, the oscillator circuit may just sit quietly for a long time, waiting for some roundoff or truncation noise equivalent in the calculation to get it started. On the other hand, the charging currents of all the capacitors give a more realistic power on transient to get the juice (literally and figuratively) flowing. This has to settle out, but it's decaying from a value that is likely many orders of magnitude closer to the final state than the buildup from barely resolvable noise.

A famous engineer at National Semiconductor, Bob Pease, mistrusts circuit simulators as the last word, since there is a black art to fiddling with the analysis parameters to get reasonable results: if your circuit is unfamiliar, or too complicated to estimate on the back of an envelope, how do you know you have a legitimate simulation?

The issue of the gain trim is interesting. (prepare to see handwaving, vague, fuzzy ideas here:) It may have a large range in order to deal with some unspecifiable or unspecified parameter value; what comes to mind is the variation from lightbulb to lightbulb. Since these things are just specified to light up, the resistance slope vs temperature near room temperature is either fixed by the fact the filament is tungsten (always, they can't substitute anything else for it in the factory to make it cheaper) or, no one has a clue, but the fill gas pressure or state of vacuum might vary, or the length or some ??? property may vary. If this oscillator is tunable, the lack of tracking of a ganged tuning capacitor or resistor network will demand a different optimum feedback value. There may be a setting where the agc has sufficient dynamic range to allow for these variations. I personally prefer a gain adjustment which allows reliable starting, but is far from the clipping region. This must apply over the whole tuning range of the oscillator. BAMA only has the schematic-- it shows a dramatic range of adjustment (the ratio of zero to anything is huge.) I can guess the manual actually has the information you need.

The RCA WA44C manual suggests an adjustment to a fixed oscillation amplitude. Looking at the Heathkit schematic, you might adjust the osc. control until the unterminated full scale output range of 10v. is achieved. It looks like Eico models 377 and 379 both use the bridged tee. The 379 manual calls this the Sultzzer oscillator circuit. I think I have a reprint of his Electronics magazine article, from when a CK722 was the transistor of choice.

I notice some hysteresis in the agc adjustment when covering the adjustment range going into and out of oscillation: this is like the pull in and tracking range for pll's. certainly, the thermal time constant leaves some uncertainty when any adjustment crosses the control threshold.

I've run out of steam for tonight.

73, Jeff AD6MX

On Thu, 24 Jul 2003, Nick
Kennedy wrote:

> Hello Jeff-
>
> That's pretty interesting stuff. I'll try to digest it more in time.
>
> Meanwhile, I tried to sketch out your circuit and also tried entering it
> into Multisim but got no oscillation. MultiSim isn't always that reliable,
> so it doesn't prove anything.
>
> Is your net list pasted directly from a working circuit? In particular, is
> the base of the 3906 connected to the collector of the 3904 and nothing else
> connected to that node? There are only a handful of standard circuits that
> I can recognize at a glance, so I don't have this one straight yet.
>
> Tried just checking DC values on the sim to see that the transistors were
> biased 'on', but didn't give good values for Vb-e either.
>
> Still enjoying the Heath oscillator. Found a ground mostly missing (poor
> contact) and also finally realized that it needs a 600 ohm load for the
> measured output to match what the meter says.
>
> This one has a lot of adjustment in the gain. Would you recommend just
> going until clipping ceases and a bit further, or reduce the amplitude quite
> a bit? The sine waves look pretty good either way. I'm a little surprised
> that the amplitude can be adjusted in this way. On my op-amp Wein bridge
> circuit, the thing drops out pretty quickly after reaching sine wave status.
> Or at least it did when I still had the adjustable pot installed.
>
> 73--Nick
> ----- Original Message -----
> From: "Jeff Furman" <jfurman@ocs.net>
> To: <nkennedy@tcainternet.com>
> Sent: Thursday, July 24, 2003 6:07 PM
> Subject: Re: Wein Bridge question. (fwd)
>
>
> > Nick, I sent this earlier today, then realized you should get it too.
> >
> > 73, Jeff AD6MX
> >
> >
> >
> > ----- Forwarded message -----

> > Date: Thu, 24 Jul 2003 14:24:51 -0700 (PDT)
> > From: Jeff Furman <jfurman@ocs.net>
> > To: banner <banner@texhoma.net>, qrp-1@lehigh.edu
> > Subject: Re: Wein Bridge question.
> >
> > Stew, the reason I put the two resistors, r5 and r6 in parallel was a
> > simple way to assure the series resistor in the wien network (r5 || r6) is
> > the same value as the shunt resistor (r1 || r2). Recall the
> > equivalent resistance looking into a voltage divider is the two resistors
> > in parallel (the battery is assumed to be very low internal resistance
> > and the amplifier input resistance is assumed to be large
> > relative to the other resistor values because there is a lot of
> > feedback.)
> > The design basis is this: the amplifier with its resistive feedback
> > has a dc gain of about 3(the ac gain is adjusted by the agc circuitry to
> > make an effective ac gain just right to maintain oscillation); I want the
> > output of the amplifier to be at roughly half the supply voltage for the
> > dc operating point; this makes the input bias divider a voltage ratio of
> > 1/6 or so. I selected two standard 5% values to do that for r1 and r2. The
> > actual circuit doesn't have half the supply voltage at the output because
> > I ignored a standard rule of thumb in order to further simplify the
> > resistor choices: the vbe of a silicon transistor is pretty much a fixed
> > value between 0.5v and 0.7v (I would use 0.65v typically for first order
> > design.) This amounts to a voltage offset at the base of Q1, so, I expect
> > a departure of about 1.95v from the half supply voltage. With a high
> > enough supply voltage, this doesn't matter, but it could be used to better
> > select r1 and r2 (for some particular supply voltage). Actually, the
> > equation for the design is:
> > $(v_s/6) + v_{be} = v_s \cdot r_1 / (r_1 + r_2)$
> > v_s is the supply voltage. This equation doesn't uniquely define the two
> > resistor values-- another condition is necessary-- that might be a
> > requirement for their parallel combination to be a favorite or required
> > value, for example, or you want a particular value of supply current
> > for this bias divider that implies roughly the sum of the resistors
> > is constrained, or maybe just that you can find two values in the standard
> > 5% (or 1%) resistor value list that work. Let's say you wanted to use a
> > single resistor instead of r5||r6. Your favorite value might be, say 10k,
> > then you would want r1||r2 to be 10k also. Second equation:
> > $10k = r_1 \cdot r_2 / (r_1 + r_2)$. now, can you find standard values for r1 and
> > r2? There might be some negotiation for the favorite value to get things
> > to work out-- maybe 9.1k or 11k instead? The important issue of the
> > design frequency shows up here-- the capacitors you have on hand (matched
> > values, naturally) may require a particular value for this resistor in
> > order to oscillate at the desired frequency.
> > Frankly, I just put in some typical value capacitors for c1 and c2 and
> > discovered it oscillates at about 800Hz. If I initially guessed wrong,
> > say, using 1uf caps instead, you would never see that. By some coincidence
> > that's close to 5000 radians/sec (that other unit of frequency), maybe

> > handy for using in measuring reactances.

> > What I tried to show is a vignette of an actual design process, guided by

> > analysis (to provide design equations,) and practical constraints

> > (available component values, vbe). This is just a simple example; one can

> > drill down and deal with such things as the temperature variation of

> > components (vbe in particular), heat dissipation, imperfect matching of

> > components, robust agc circuitry, and lots of other heartburn items. Each

> > additional constraint adds its burden of complexity; at some point you

> > just have to try it-- the simulator helps here, followed by a haywired

> > model to check the simulation conclusions.

> > I realize this is more than you asked about; I'm using it as a vehicle to

> > reveal a bit behind the veil. I hope this reply helps you.

> > You can download a free demo copy of a decent circuit simulator here:

> > <http://www.spectrum-soft.com>

> > so you don't have to be without.

> > for reference, this is the net list being discussed:

> > C1 2 0 .01U

> > C2 6 2 .01U

> > C3 8 3 .01U

> > D1 4 7 D1N4148

> > D2 7 4 D1N4148

> > Q1 1 2 3 2N3904 (c b e)

> > Q2 4 1 5 2N3906 (c b e)

> > R1 2 0 15K

> > R2 5 2 75K

> > R3 3 0 4700

> > R4 4 3 10K

> > R5 4 6 75K

> > R6 4 6 15K

> > R7 8 7 150K

> > V1 5 0 9 (+ - 9v. batt.)

> >

> > 73, Jeff AD6MX

> >

> >

> > On Thu, 24 Jul 2003, banner wrote:

> >

> > > OM Jeff,

> > >

> > > In looking over your oscillator, I notice that R5 and R6 are in

> > > parallel. Is this to get a 12.5 parallel resistance, or am I seeing

> > > something I shouldn't? I don't own a SPICE program to check with, I'm

> > > just

> > > taking your word that it'll work. What's the design frequency?

> > >

> > > Thnaks, Stew, KD5DL

> > >

> > >

> > >
> >
> >
> >
> >
>

Date: Fri, 25 Jul 2003 09:06:14 -0100
From: "Julian (G4ILO)" <g4ilo@qsl.net>
To: qrp-1@Lehigh.EDU
Subject: [154874] Re: [154795] UK Licencing changes - my thoughts
Message-ID: 1131141124514060925072003@excelsior.tech-pro.co.uk

The requirement to learn Morse to get a license may have gone but the benefits of CW as a mode are still the same as they ever were. It's up to the clubs and national societies to encourage new hams to learn the code and continue to proclaim the benefits of it. For the last couple of years the Morse test here for entry level licenses was so simple a child of 6 could pass it (and some have.) I recently contacted a couple of new licensees who proclaimed themselves to be big Morse fans. So all is not lost, and the number of new people coming in to the hobby now is very good news for all of us.

73,

--

Julian, G4ILO. (RSGB, ARRL, G-QRP)
G4ILO's Shack: <http://www.qsl.net/g4ilo>

==== Original message ====

>
> Not intending to start the wars, but IMHO as the requirements are
> downsized
> and possibly in the future dropped. This will cause a lot of fun to be
> missed by the future hams.

Date: Fri, 25 Jul 2003 10:01:45 -0100

From: "Julian (G4ILO)" <g4ilo@qsl.net>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [154875] MFJ Cub 20m drift problem
Message-ID: 8182804545011025072003@excelsior.tech-pro.co.uk

I recently completed an MFJ Cub kit for 20m. It's quite stable on receive after it has been switched on for a bit, but when I start to transmit it begins to drift LF at about 100Hz a minute. This is obviously the result of the heatsink warming up, and warming other components, as the drift continues for a minute or so after I've stopped transmitting, then the frequency slowly drifts back. Is this really acceptable for QRP homebrew gear, or can it be improved upon?

I don't have a junkbox of different types of capacitor to try. I've seen a mod in Sprat to make the VFO into a VXO, but one of the reasons for building the Cub in the first place was that it covered a virtually all the CW segment, and I'm reluctant to lose that.

I'd be interested to hear of the experiences and mods tried by other 20m Cub builders.

73,

--

Julian, G4ILO. (RSGB, ARRL, G-QRP)
G4ILO's Shack: <http://www.qsl.net/g4ilo>

Date: Fri, 25 Jul 2003 12:12:36 +0100
From: "Jack Bennett" <J.Bennett@lboro.ac.uk>
To: <n4xy@earthlink.net>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154876] Re: Long shot... SMT diode
Message-ID: <006001c3529d\$a740f0e0\$98327d9e@pc2000e1jb5>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all,

An A475 is a 4.7uf Electrolytic.

See <http://www.marsport.demon.co.uk/smd/mainframe.htm>

Regards all and 72,

Jack
G3PVG

----- Original Message -----

From: "Ed Tanton" <n4xy@earthlink.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Friday, July 25, 2003 4:41 AM

Subject: Re: Long shot... SMT diode

> Hi Jason... the best reference I know of for decoding SMT markings is:
> <<http://www.tkb-4u.com/code/smdcode/smdcodeA.php>> . However, they do not
> list an "A475"..
>
> BUT I'd sure try a 1N4148 and see what happens. I got the impression it
was
> a simple-'two terminal' diode case.
>
> P.S. That SMT Markings Magic Decoder Ring URL was thanks to David Snowdon
> <norway@passport.ca> here on QRP-L, back in NOV 2002-and still works just
fine.
>
> 73 Ed Tanton N4XY <n4xy@earthlink.net>
>
> Ed Tanton N4XY
> 189 Pioneer Trail
> Marietta, GA 30068-3466
>
> website: <http://www.n4xy.com>
>
> All emails <IN> & <OUT> checked by
> Norton AntiVirus with AutoProtect
>
> LM: ARRL QCWA AMSAT & INDEXA;
> SEDXC NCDXA GACW QRP-ARCI
> OK-QRP QRP-L #758 K2 (FT) #00057
>
> -----
> "He that gives up a little liberty to gain
> temporary security will lose both and
> deserve neither".
> --Benjamin Franklin
>

> "Suppose you were an idiot ...
> and suppose you were a member of
> Congress... but I repeat myself."
> --Mark Twain

> -----
>
>
>
>

Date: Fri, 25 Jul 2003 06:48:07 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: "QRP-L Distribute" <qrp-l@Lehigh.EDU>
Subject: [154877] Re: Argo 5 TCX0
Message-ID: <000301c352a2\$9fa49990\$0100a8c0@MAIN>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Stability will be increased to +/-3 PPM.

73,
Steve - AA5TB

"Considering the factory specs on stability of 20 ppm, what improvement
will I get with the TCX0?
Thanks
Dave K8BBM"

Date: Fri, 25 Jul 2003 08:12:37 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <hamjoel@juno.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154878] Re: on line lic reg...
Message-ID: <005b01c352a6\$0b39ec20\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> haaaalllllpppppp
> i tried for over 2 hours to figure this on line thing out...
> seems I have one cores for some licence or other
> however I did not see one listed with my ham licence..
> and what's this password thing?
> confused in maine
> trying to save \$6.00
>
> KE1LA JOEL
> IN MAINE
> FREEZIN

I tried to do my change of address through the web site a few years ago. It was a mess. I gave up.

Are you an ARRL Member? They do it for free for members.

Mike

Date: Fri, 25 Jul 2003 08:20:50 -0400
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154879] Re: Code Rqm't comment
Message-ID: <3F2120A2.25DFAC6A@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi there,

Some refer to lowering the code requirements and the elimination of it as "dumbing down" the license requirements.

Over the past 2 years or so, I went from 0 wpm to 5wpm for my license, and I am now at about 15 wpm. Ya'll wouldn't want to argue that I've gotten any smarter, now would you? :)

73,
--Alex KR1ST

Date: Fri, 25 Jul 2003 08:38:07 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: w9ya@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154880] Re: Code Rqm't comment
Message-ID: <3F2124AF.26AC220A@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

There is little objection to the ARRL trying to accommodate their advertisers by listening. They have a dual business to run. They have a magazine to run (requires sales) and they have a large membership to keep satisfied. It seems that as more and more of us "old folks" pass on, they listen to the younger folks. If that means giving in, so be it! I probably won't be here to care.

73

>
> Yeah, but the advertisers relatively recently (last 10 years or so) decided
> that the CW requirement was hindering their sales potential. This was made
> very clear at the aforementioned meeting. And then "the rock rolled down the
> hill", in as much as the ARRL then changed its long-standing policy about
> code. i.e. It is NOT advertiser to FCC directly that we were talking about
> when I responded to a previous email where the author had spoke about the
> ARRL's influence at the FCC etc and how that played into any changes in
> licensing.
>
> Bob
> w9ya
>
> On Thursday 24 July 2003 10:29 pm, you wrote:
> > There have been advertisers since the dawn of ham radio. Many of them
> > manufactured AM phone rigs, or SSB rigs. They failed to sway the FCC
> > opinion on Cw until a few years ago. If we take that as a model, we
> > will see the eventual elimination of a CW requirement about 2090.
> >
> > 73

Date: Fri, 25 Jul 2003 08:42:54 -0400
From: Chuck Ludinsky <cjl@mitre.org>
To: qrp-l@lehigh.edu, neqrp@lehigh.edu
Subject: [154881] Simple SSB transceiver and 60M
Message-ID: <3F2125CE.639D837D@mitre.org>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

With only minor changes, the simple SSB transceiver discussed here may provide an opportunity to get on 60M. See:

<http://myweb.cableone.net/adamsmed2/page1.html>

Changing the VFO to a VXO crystal oscillator and using a different IF frequency, we may be able to get on 60M using commonly available crystals. For example, the combination of 14.3182 MHz and 19.6608 MHz crystals puts us very close (i.e., 5.3426 MHz) to the first three frequency slots on 60M (5330.5, 5346.5 and 5366.5 KHz). With a three position switch and three trimmer capacitors to pull the oscillator to the channel frequency, we should be able to make a three channel transceiver on 60M with crystal stability.

Has anyone tried this? Is anyone interested?

72,
Chuck/K1CL

Date: Fri, 25 Jul 2003 05:49:56 -0700
From: David Shalita <davidr@cnmnetwork.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154882] Re: PIC Elmer Series?
Message-ID: <3F212774.F1826755@cnmnetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Please count me in on this too!

73, W6MIK, Dave

Date: Fri, 25 Jul 2003 08:48:44 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: kb7ww@easystreet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154883] Re: Making etched circuit boards ??? somewhat OT.
Message-ID: <3F21272C.2F810D04@erols.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

62.00 seems like a lot for a first try board. Maybe if I were going into the business of building power supplies, I might consider such a prototype, but for a single board?

Fortunately there is a simpler way. There are board layout programs that allow you to print out the layout. Then xerox them and transfer them to a clean board surface. These are then etched in PC board etchant and after washing, are ready to use.

I am not at home so I cannot give you names, but I know they work, I have used them.

73

Date: Fri, 25 Jul 2003 08:52:33 -0400
From: "Steve Blary" <steve@eclipsecat.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154884] RE: Code Rqm't comment
Message-ID: <PPEIIGOHKOAKJAPHAODHGELEEHA.steve@eclipsecat.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

What about knowing the code makes one a better operator? Is it knowing code? I believe it's the discipline to learn the code, not the code itself that makes better operators. So why use any one mode to test one's determination as a qualifier of a good operator?

I say forget the CW requirement and make the test more comprehensive in the operating and regulation areas. At least then more time would be spent learning (or memorizing) skills and knowledge that are directly related to quality of operating (not mode selection).

73's
Steve Blary, N1XC
<http://geocities.com/sblary>

Date: Fri, 25 Jul 2003 08:54:24 -0400

From: Bruce Muscolino <w6toy@erols.com>
To: g4ilo@qsl.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [154885] Re: MFJ Cub 20m drift problem
Message-ID: <3F212880.DDA128CB@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Have you contacted MFJ directly about the problem. It seems to me that your heat sink must be getting way to hot. It sounds like it is getting too hot to touch almost immediately. This should not be so, in the first few minutes, even over longer periods, it should remain cool t the touch. Check out other parts of the final circuit. You may have a bad resistor. Look around a bit.

73

Date: Fri, 25 Jul 2003 09:06:02 -0400
From: "John Paul Keon" <jpkeon@nc.rr.com>
To: <myetsko@insydesw.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154886] Re: on line lic reg...
Message-ID: <01ee01c352ad\$80cf6080\$6401a8c0@nc.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Hi Gang,
I did my renewal without any problem.
It took about 25 or 30 minutes to complete.
If you call the 800 number and ask one of the
ladies there they will walk you through if you run
into a problem. Call during their business hours and
they are happy to help.
I had to call to make a change in my zip code. The
post office changed mine and I could not figure out how
to do it. Two of the ladies answered and helped and now
it is history.

John Paul, Raleigh, NC [AB4PP]//NNN UTV
<http://www.knightlites.org>
"We all take different paths in life, but no matter where
we go, we take a little of each other everywhere."

----- Original Message -----

From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, July 25, 2003 8:12 AM
Subject: Re: on line lic reg...

> haaaalllllppppppp
> i tried for over 2 hours to figure this on line thing out...
> seems I have one cores for some licence or other
> however I did not see one listed with my ham licence..
> and what's this password thing?
> confused in maine
> trying to save \$6.00
>
> KE1LA JOEL
> IN MAINE
> FREEZIN

I tried to do my change of address through the web site a few years ago. It was a mess. I gave up.

Are you an ARRL Member? They do it for free for members.

Mike

Date: Fri, 25 Jul 2003 08:24:00 -0500
From: "Mike D." <hrg@cifnet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154887] RE: Code Rqm't comment
Message-ID: <MABBKCNPDJPALIGNIPHIEEKHMCAA.hrg@cifnet.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> -----Original Message-----
> From: cw-admin@mailman.qth.net [mailto:cw-admin@mailman.qth.net]On
> Behalf Of Alan W.
> Sent: Thursday, July 24, 2003 7:00 PM
> Subject: [CW] CW augments SSB for traffic handling
>
>

> The other day, the Alexandria Radio Club (Alexandria, VA) had a
> station set
> up at the town's 254th birthday celebration. We took several pieces of
> message traffic from bystanders, including one going to to a scientific
> station in Antarctica. The next day we had terrible propagation on 40 and
> 80 meters. I tried to send it on the afternoon 40 meter 4th Region SSB
> traffic net, but no one could hear each other.
>
> The receiving station asked net control, "Can we try CW?"
>
> Net control said to me, "He wants to try CW. Can you do it? If so, what
> frequency?"
>
> I replied that was fine, and suggested 7.025 MHz. Net Control
> relayed that
> to the other station, and we met down there, with him calling me
> (receiving
> station usually calls after the QSY). In about 5 minutes, I had
> sent him my
> 3 messages, including the on to Antarctica (Davis Station) - NO PROBLEMS!
>
> Without CW, we would have had to simply give up.
>
> Thus CW is an essential technique in emergency HF communnications as a
> supplement to the SSB nets. But without knowledge of CW (and 5 wpm won't
> cut it), our HF net operations would be crippled.
>
> dit dit y'all
>
> Alan W. N5LF

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
> Steve Blary
> Sent: Friday, July 25, 2003 7:53 AM
> To: Low Power Amateur Radio Discussion
> Subject: RE: Code Rqm't comment
>
>
>

> What about knowing the code makes one a better operator? Is it
> knowing code?
> I belive it's the disipline to learn the code, not the code itself that
> makes better operators. So why use any one mode to test one's
> determination
> as a qualifier of a good operator?
>
> I say forget the CW requirment and make the test more comprehensive in the
> operating and regulation areas. At least then more time would be spent

> learning (or memorizing) skills and knowledge that are directly
> related to
> quality of operating (not mode selection).
>
> 73's
> Steve Blary, N1XC
> <http://geocities.com/sblary>
>
>
>

Date: Fri, 25 Jul 2003 09:39:11 -0400
From: Michael Babineau <michael.babineau@sympatico.ca>
To: ARDUJENSKI@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [154888] re:Success with frequency specific dipoles?
Message-ID: <5FC85FD0-BEA5-11D7-93C0-00039309268A@sympatico.ca>
Content-Type: text/plain; charset=US-ASCII; format=flowed
Mime-Version: 1.0 (Apple Message framework v552)
Content-Transfer-Encoding: 7bit

Alan :

If you want to minimize the amount of wire and don't mind lowering the antenna to change bands you can use an idea that I believe originated from a CQ Magazine article in the late 1970s. Build a dipole for the highest band you want to operate then rather than attaching cord to the end insulator, add another section of wire to each end and another insulator so that the added wire plus about 3 or 4 inches makes it resonate on the next lowest band. The add-on sections are connected using a short piece (about 3 or 4 inches) of wire used as a jumper from the lower section and connected using an alligator clip. This configuration can be repeated to cover as many bands as you would like. Changing bands simply involves lowering the antenna and adding the additional sections as needed by moving the jumpers up to bridge the insulators.

I used this antenna in an inverted Vee configuration along with my HW-8 when I was

first licenced to cover 40M thru 15M and it worked well for me without the need for a tuner.

Michael VE3WMB

Date: Fri, 25 Jul 2003 09:46:25 +0000
From: ve3ab@mail.mondenet.com
To: qrp-l@lehigh.edu
Subject: [154889] CB/WX band combination whip great price at store
Message-ID: <200307251347.h6PDlhRC016891@barclay.mondenet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

just a quick note on a popular store (R.S.) where radio stuff seems to be quickly discontinued. I saw a short (about 4 and a half foot) helically loaded whip..with two parallel whips (about 16 inches high) each side of the big whip. Price was slashed down and there was only one left. Im going back today to purchase it.
Its a sturdy arrangement..and I figure I can mount it way up high above my W8JK on my tower. (I have a W8JK end fed antenna 8 to 9 ft spacing between the wires).
A little modification to the whips will be in order.
Ideally..Id like to get the main whip to be resonant on 20 meters..and the small whips (one for 2 mtrs and the other for 6 mtrs). These are the bands I have been operating lately..both ssb and fm.(I want a second antenna..omnidirectional would be good...so i can compare the directional pattern of my w8jk.)
Id have to put a little extension on the end of the cb whip. I have an article on this.
Anyways..(im on vacation now)...OTHER ITEMS i have seen on sale recently. (at the rat shack store).....
.Plain simple..CB helical mobile antennas..and phased trucker antennas (perhaps modifyable to 10 mtrs)..0 to 500 ma meters..(abt half price). and some rf connectors.
Im watching for the coax patch cords to go on sale.
73 Earl Ve3ab..ps..IM BUMBLE BEE 168 for this sunday afternoon and Ill be on 20 and higher if they are open.

Date: Fri, 25 Jul 2003 08:53:44 -0500
From: "Brian Murrey - KB9BVN" <brian@iquest.net>
To: "QRP-L" <qrp-l@lehigh.edu>

Subject: [154890] My take on CW
Message-ID: <003901c352b4\$2a072c90\$02fea8c0@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I like CW. That's why I do it. Others like me will come along, and regardless of being mandatory or not, they will join me.

The 5 wpm CW requirement isn't much of a hurdle to anyone that wants to learn CW, but it can be a huge obstacle to folks that don't want to learn CW.

As long as CW isn't made an illegal mode, like spark gap, I don't think making it a license requirement or not, will hurt the number of CW ops out there. If that makes any sense.

I do agree with John, this hobby needs MORE quality hams...but sometimes you have to scoop up a whole lotta dirt to find one diamond.

How good is our recruiting in the EE schools?

=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
K1 #1205, NC40A, or SWL Rigs
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.504 / Virus Database: 302 - Release Date: 2003-07-24

Date: Fri, 25 Jul 2003 06:55:13 -0700
From: "John_K7FD" <john_k7fd@cablespeed.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154891] Re: Code Rqm't comment
Message-ID: <000401c352b4\$5f3c8ae0\$3701a8c0@hamshack>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Absolutely! 2 yrs ago you didn't know the code, now you do! Sounds like you're smarter to me! Anytime you learn a new skill you're adding smarts! :)

Keep up the good work!

73 John K7FD

> Hi there,
>
> Some refer to lowering the code requirements and the elimination of it
> as "dumbing down" the license requirements.
>
> Over the past 2 years or so, I went from 0 wpm to 5wpm for my license,
> and I am now at about 15 wpm. Ya'll wouldn't want to argue that I've
> gotten any smarter, now would you? :)
>
> 73,
> --Alex KR1ST
>
>

Date: Fri, 25 Jul 2003 10:15:05 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [154892] Distributed Capacitance Dipole??
Message-ID: <7f.3a85df5b.2c529569@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In searching for some answers regarding dipole and being affected by its environment I came across this article discussing a broadband Distributed Capacitance Dipole. Have any of you had any experience with this? Seems very similar to the Bazooka.
<http://www.k9gd.com/DCCDA.html>

Alan KB7MBI in Woodinville, WA
FISTS 5702 / ARS / Proud member of ARRL

--- --- DIT DIT

Date: Fri, 25 Jul 2003 09:32:18 -0500
From: KD5NWA <kd5nwa@cbayona.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154893] Re: [ham] Re: Code Rqm't comment
Message-ID: <oprsven4gbnm0yez@localhost>
Content-Type: text/plain; charset=iso-8859-15; format=flowed
MIME-Version: 1.0

How many "smarts" do you suppose he added to his inventory of "smarts" I would give it a five "smarts" and two "ataboys".

On Fri, 25 Jul 2003 06:55:13 -0700, John_K7FD <john_k7fd@cablespeed.com> wrote:

> Absolutely! 2 yrs ago you didn't know the code, now you do! Sounds like
> you're smarter to me! Anytime you learn a new skill you're adding smarts!
> :)
>
> Keep up the good work!
>
> 73 John K7FD
>
>
>
>> Hi there,
>>
>> Some refer to lowering the code requirements and the elimination of it
>> as "dumbing down" the license requirements.
>>
>> Over the past 2 years or so, I went from 0 wpm to 5wpm for my license,
>> and I am now at about 15 wpm. Ya'll wouldn't want to argue that I've
>> gotten any smarter, now would you? :)
>>
>> 73,
>> --Alex KR1ST
>>
>>
>
>

--
Cecil

KD5NWA

Date: Fri, 25 Jul 2003 10:46:41 -0400
From: donovanhoggan@netscape.net
To: qrp-1@lehigh.edu
Subject: [154894] Re: Code Rqm't comment
Message-ID: <62CC4DEC.79CD129D.42854415@netscape.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Hello again,

I appreciate the support and I will learn CW eventually, license requirement or no! I like the tradition and I like the capacity to get through QRM that CW offers. I'm not opposed to CW. I'm just opposed to having it a requirement to operate on the HF bands.

On the other hand, I'm not a proponent of watering down the licensing process. I think there are a number of areas where the testing process should be more rigorous, not less.

Thanks,
Donovan

-... - -... -.. --- -.

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<http://channels.netscape.com/ns/computing/mcafee/index.jsp?promo=393397>

Get AOL Instant Messenger 5.1 free of charge. Download Now!
<http://aim.aol.com/aimnew/Aim/register.adp?promo=380455>

Date: Fri, 25 Jul 2003 15:55:07 +0100
From: "Leon Heller" <leon_heller@hotmail.com>
To: "Low Power" <qrp-1@Lehigh.EDU>
Subject: [154895] HF without CW test available from tomorrow in UK
Message-ID: <LAW15-DAV67aTl3oA9a00000bdf@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've just downloaded the Notice of Variation to the UK license document from the RA (UK equivalent of the FCC).

>From tomorrow (Midnight 26 July), all UK Class B licenses will be identical to Class A, allowing HF operation.

I've just designed an 18 MHz PLL synthesiser PCB so that I'll be able to use CW to communicate with my friend Nigel, G0UGD on 17 metres. He's only about 10 miles away, so I won't need a lot of power. I can't say the same for Nigel, though, as he'll be using one of his Racal boat anchors. 8-)

They are hardly QRP, but if anyone is interested in a nice collection of Racal radios, here is his web site:

<http://www.ngrahamb.btinternet.co.uk/>

He devotes a lot of time and money to rebuilding them to the original spec.

I used to work at the Bracknell facility he mentions. I was probably slaving away in there when he took the photo.

73, Leon

--

Leon Heller, G1HSM

leon_heller@hotmail.com

http://www.geocities.com/leon_heller

Date: Fri, 25 Jul 2003 11:32:56 -0400

From: "Mike Yetzko" <myetzko@insydesw.com>

To: <ve3ab@mail.mondenet.com>,

"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [154896] Re: CB/WX band combination whip great price at store

Message-ID: <005601c352c2\$27331ca0\$0200a8c0@charter.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Most of the CB stuff at Radio Shack you don't even have to modify to make work on 10M. The old Deluxe Mag Mount antenna for instance, all I did was put it together with the whip as short as possible and it tuned up fine at 28.300.

The 'shorter' the antenna with more coil involved and the more likely you'll have to muck with it. But at most it's PROBABLY just a simple tune job.

Mike

Date: Fri, 25 Jul 2003 11:38:31 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: J.Bennett@lboro.ac.uk, qrp-L Reflector <qrp-l@lehigh.edu>
Subject: [154897] Re: Long shot... SMT diode
Message-ID: <5.2.1.1.2.20030725113652.02bfc258@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Ouch!!! Why didn't I realize that?!!! Guess I got too focused thinking diode! Well... at least one of us had his brain engaged!!!

At 07:12 AM 7/25/2003, you wrote:

>Hi all,
>
>An A475 is a 4.7uf Electrolytic.
>
>See <http://www.marsport.demon.co.uk/smd/mainframe.htm>
>

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...

and suppose you were a member of
Congress... but I repeat myself."

--Mark Twain

Date: Fri, 25 Jul 2003 11:46:40 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <kr1st@amsat.org>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [154898] Re: Code Rqm't comment
Message-ID: <00c301c352c4\$1bc57960\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Some refer to lowering the code requirements and the elimination of it
> as "dumbing down" the license requirements.

>

> Over the past 2 years or so, I went from 0 wpm to 5wpm for my license,
> and I am now at about 15 wpm. Ya'll wouldn't want to argue that I've
> gotten any smarter, now would you? :)

>

> 73,

> --Alex KR1ST

Gee, I don't know. We're talking ALEX here guys...

Date: Fri, 25 Jul 2003 08:53:13 -0700
From: "john gabbard" <johngabbard@usintouch.com>
To: <hrg@cifnet.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154899] Re: Code Rqm't comment
Message-ID: <000f01c352c4\$db994af0\$40811c0c@john>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Way to go Alan! Nice comment that should start some people to maybe
reconsider! John KF7OM

----- Original Message -----

From: "Mike D." <hrq@cifnet.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, July 25, 2003 6:24 AM

Subject: RE: Code Rqm't comment

> > -----Original Message-----

> > From: cw-admin@mailman.qth.net [mailto:cw-admin@mailman.qth.net]On

> > Behalf Of Alan W.

> > Sent: Thursday, July 24, 2003 7:00 PM

> > Subject: [CW] CW augments SSB for traffic handling

> >

> >

> > The other day, the Alexandria Radio Club (Alexandria, VA) had a

> > station set

> > up at the town's 254th birthday celebration. We took several pieces of

> > message traffic from bystanders, including one going to to a scientific

> > station in Antarctica. The next day we had terrible propagation on 40

> > and

> > 80 meters. I tried to send it on the afternoon 40 meter 4th Region SSB

> > traffic net, but no one could hear each other.

> >

> > The receiving station asked net control, "Can we try CW?"

> >

> > Net control said to me, "He wants to try CW. Can you do it? If so, what

> > frequency?"

> >

> > I replied that was fine, and suggested 7.025 MHz. Net Control

> > relayed that

> > to the other station, and we met down there, with him calling me

> > (receiving

> > station usually calls after the QSY). In about 5 minutes, I had

> > sent him my

> > 3 messages, including the on to Antarctica (Davis Station) - NO

PROBLEMS!

> >

> > Without CW, we would have had to simply give up.

> >

> > Thus CW is an essential technique in emergency HF communnications as a

> > supplement to the SSB nets. But without knowledge of CW (and 5 wpm won't

> > cut it), our HF net operations would be crippled.

> >

> > dit dit y'all

> >

> > Alan W. N5LF

>
> > -----Original Message-----
> > From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> > Steve Blary
> > Sent: Friday, July 25, 2003 7:53 AM
> > To: Low Power Amateur Radio Discussion
> > Subject: RE: Code Rqm't comment
> >
> >
> > What about knowing the code makes one a better operator? Is it
> > knowing code?
> > I belive it's the disipline to learn the code, not the code itself that
> > makes better operators. So why use any one mode to test one's
> > determination
> > as a qualifier of a good operator?
> >
> > I say forget the CW requirment and make the test more comprehensive in
the
> > operating and regulation areas. At least then more time would be spent
> > learning (or memorizing) skills and knowledge that are directly
> > related to
> > quality of operating (not mode selection).
> >
> > 73's
> > Steve Blary, N1XC
> > <http://geocities.com/sblary>
> >
> >
> >
>
>
>

Date: Fri, 25 Jul 2003 09:00:53 -0700 (PDT)
From: Garie Halstead K8KFJ <khyberpass65@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154900] Re: My take on CW
Message-ID: <20030725160053.62325.qmail@web80509.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- Brian Murrey - KB9BVN <brian@iquest.net> wrote:

> As long as CW isn't made an illegal mode, like spark gap, I don't

> think making it a license requirement or not, will hurt the number of
> CW ops out there. If that makes any sense.

I'm not sure it makes sense to me Brian. It's already been stated on this list that many people (myself included) learned the code because it was a stepping stone for being licensed. I didn't want to learn it but I knew it was a must in order for me to get on the air. After using it and coming somewhat proficient, I started liking it and found it to be fun. Now, I am 95% CW and very comfortable at the higher speeds in DX contests.

My point being...if I hadn't been *forced* to do it, I would have bypassed it (trust me) and would have never known how fun it was (nor the pride in having developed a skill).

My question to you is .. how do you envision new CW ops coming into the hobby if they're not introduced to it via a mandatory test. Voluntarily learn it on their own because it might be cool? Sorry, I just don't see that many doing that (especially after their initial frustration we all endured in learning it and gaining some speed). I wish I were as optimistic as you Brian but sadly I'm not.

72, Gary -K8KFJ-

Do you Yahoo!?

Yahoo! SiteBuilder - Free, easy-to-use web site design software
<http://sitebuilder.yahoo.com>

Date: Fri, 25 Jul 2003 11:39:14 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: hamjoel@juno.com,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154901] Re: on line lic reg...
Message-ID: <3.0.6.32.20030725113914.007cc4a0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Joel,

Type in "amateur radio" in the search box on the FCC.gov home page and somewhere on the page that comes up will be a link to how to renew and lists the steps.

Basically, there are three steps.

1. Go to the ULS home page (linked from FCC home page) Click on new user. Fill out the form. At the bottom of the form it asks you to choose and enter a 6-16 character password of your choosing, or it can generate one for you. Be sure to note it down!

As soon as you submit the form, it will give you a CORES number, which appears at the top of the page. Note this number down too.

2. Now you need to associate your call with the CORES number. There is a direct link from the registration form or go back to the ULS home page. There's room to enter 100 calls, but just enter your ham call in the first box.

3. Now find the renew license link. It doesn't specifically state amateur radio, as you can renew any type of FCC license here. It will ask you for your CORES number and password. Fill in that form. (basically your name, address and SS number) Submit that form and it will say you have been renewed. There is a different link if you need to change your address, etc.

I plan on noting my CORES number and password on the back of my new license, so I'll know where to find them 10 years from now!

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Fri, 25 Jul 2003 12:07:35 -0400
From: "Jim Stamper" <jstamper@shentel.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154902] Glue and toroids
Message-ID: <004701c352c6\$df461460\$1d546fcc@jim>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does anybody have any thoughts on duco cement or other glue that might be used to secure wound toroids after they have been soldered upright into a PCB? I'm looking for something to give added stability in case I accidentally hit one while working on the rest of the circuit.

jim-

KG4LDY

Date: Fri, 25 Jul 2003 09:07:52 -0700 (PDT)
From: Garie Halstead K8KFJ <khyberpass65@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154903] Re: Code Rqm't comment
Message-ID: <20030725160752.10741.qmail@web80507.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- donovanhoggan@netscape.net wrote:

> I'm not opposed to CW. I'm just
> opposed to having it a requirement to operate on the HF bands.
>
> On the other hand, I'm not a proponent of watering down the licensing
> process.

Hmmmm...did you just now contradict yourself or did I miss something?
HI

72, Gary -K8KFJ-

Do you Yahoo!?
Yahoo! SiteBuilder - Free, easy-to-use web site design software
<http://sitebuilder.yahoo.com>

Date: Fri, 25 Jul 2003 09:18:25 -0700
From: "john gabbard" <johngabbard@usintouch.com>
To: <donovanhoggan@netscape.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154904] Re: Code Rqm't comment
Message-ID: <008701c352c8\$608c9a70\$40811c0c@john>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hang in there fella and gain the respect of a dying breed? John 73
KF7OM

----- Original Message -----

From: <donovanhoggan@netscape.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, July 25, 2003 7:46 AM
Subject: Re: Code Rqm't comment

> Hello again,
>
> I appreciate the support and I will learn CW eventually, license
requirement or no! I like the tradition and I like the capacity to get
through QRM that CW offers. I'm not opposed to CW. I'm just opposed to
having it a requirement to operate on the HF bands.
>
> On the other hand, I'm not a proponent of watering down the licensing
process. I think there are a number of areas where the testing process
should be more rigorous, not less.
>
> Thanks,
> Donovan
> -... -.- -.... -.. --- -. .
>
>
> -----
> McAfee VirusScan Online from the Netscape Network.
> Comprehensive protection for your entire computer. Get your free trial
today!
> <http://channels.netscape.com/ns/computing/mcafee/index.jsp?promo=393397>
>
> Get AOL Instant Messenger 5.1 free of charge. Download Now!
> <http://aim.aol.com/aimnew/Aim/register.adp?promo=380455>
>
>

Date: Fri, 25 Jul 2003 16:32:48 +0000
From: Larry Cahoon <lejek@erols.com>
To: qrp-1@lehigh.edu
Subject: [154905] CO All QRP
Message-ID: <5.1.0.14.0.20030725162643.01ce7260@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

This morning CO fell all QRP with a QSO with Sterling, WA7JHQ/M. This one
had been in the planning for well over a month. We had exchanged several
e-mails and phone numbers. He first ran the county on the county hunter
net, but he could not pull my signal out. A few minutes later the phone
rang. He had found a quieter place to park. So we picked a frequency. This

time the QSO came off without a hitch. Average power to work a CO county - 1.18 watts. Now I'll have to go figure out how to apply for the CQC's CO counties award.

Only 10 counties in 6 states to go to have them all QRP-CW.

73 de Larry.....WD3P in MD
<http://www.wd3p.net/>

Date: Fri, 25 Jul 2003 10:09:33 -0700
From: Marv Fagenson <k6hcj@juno.com>
To: qrp-l@Lehigh.edu
Subject: [154906] 38 Special-warble
Message-ID: <20030725.100935.-1808095.1.k6hcj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Tnx to all who responded. There's 8VDC across the pot and varying the voltage changes the fq. I suspect that there is toomuch power dissipation across the pot. As the pot gets warm, the r value changes thus changing the frequency. Does this sound feasible?
Marv Fagenson
k6hcj@Juno.com

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Date: Fri, 25 Jul 2003 13:15:48 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: jstamper@shentel.net,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154907] Re: Glue and toroids
Message-ID: <5.2.1.1.2.20030725131207.02156140@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

You could use probably Duco, but I'd suggest getting some non-corrosive RTV (such as the Electronics-grade gasket silicone stuff sold at Auto-Parts

stores.) That's what I used on my K2. It has the advantages of not solvating any paint (or wire-enamel) and of being removable w/o structural damage-admittedly with some careful effort.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
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LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".

--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."

--Mark Twain

Date: Fri, 25 Jul 2003 13:22:06 -0400
From: "Lee Mairs" <lmairs@direcway.com>
To: <jstamper@shentel.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [154908] Re: Glue and toroids
Message-ID: <0f2001c352d1\$459dd540\$2202a8c0@J4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi use a blip of hot glue.
73 de Lee
km4yy/8

----- Original Message -----

From: "Jim Stamper" <jstamper@shentel.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, July 25, 2003 12:07 PM
Subject: Glue and toroids

> Does anybody have any thoughts on duco cement or other glue that might be
> used to secure wound toroids after they have been soldered upright into a
> PCB? I'm looking for something to give added stability in case I
> accidentally hit one while working on the rest of the circuit.
>
> jim-
> KG4LDY
>
>

Date: Fri, 25 Jul 2003 13:29:24 EDT
From: Stevenu7t@aol.com
To: qrp-1@lehigh.edu
Subject: [154909] frequency specific dipoles
Message-ID: <19c.1803af86.2c52c2f4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Alan and Michael,
If you use the inverted vee configuration, try making the first wire (~32' 6" each leg) from the apex cut for 40m / 6m bands. Follow this with a short piece of wire to extend to 15m (if you like cw, or forget this short piece if you use only ssb).

At this point, the ends will be down to eye level and you can attach short pieces for, 17m 10m, 12m, and 20m. Sorry, but 30m doesn't fit into my scheme. Run these short lengths horizontal to the ground. Thus, no raising or lowering is required to change bands. My XYL is good at changing bands.
GL, Steve, NU7T

Date: Fri, 25 Jul 2003 13:37:17 -0400 (EDT)
From: Philip L Carter <pcarter@gcfn.org>
To: Steven Weber <kdl1jv@moose.ncia.net>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154910] Re: on line lic reg...
Message-ID: <Pine.3.07.10307251311.A26930-b100000@acme>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just don't lose the license or someone else can become you. It's like putting your PIN number on the back of your bank card.

On Fri, 25 Jul 2003, Steven Weber wrote:

> Joel,
>
> Type in "amatuer radio" in the search box on the FCC.gov home page and
> somewhere on the page that comes up will be a link to how to renew and
> lists the steps.
>
> Basicly, there are three steps.
>
> 1. Go to the ULS home page (linked from FCC home page) Click on new user.
> Fill out the form. At the bottom of the form it askes you to chose and
> enter a 6-16 character pass word of your chosing, or it can generate one
> for you. Be sure to note it down!
>
> As soon as you summit the form, it will give you a CORES number, which
> appears at the top of the page. Note this number down too.
>
> 2. Now you need to associate your call with the CORES number. There is a
> direct link from the registration form or go back to the ULS home page.
> There's room to enter 100 calls, but just enter your ham call in the first
> box.
>
> 3. Now find the renew license link. It doesn't specifcily state amatuer
> radio, as you can renew any type of FCC license here.
> It will ask you for your CORES number and password. Fill in that form.
> (basicly your name, address and SS number) Sumit that form and it will say
> you have been renewed. There is a different link if you need to change your
> address, ect.
>
> I plan on noteing my CORES number and pass word on the back of my new
> license, so I'll know where to find them 10 years from now!
>
>
> 72,
> Steve, KD1JV
> "Melt Solder"
> White Mountains of New Hampshire

> <http://www.qsl.net/kd1jv/>

NRE/COLE Test Center OH-3
pcarter@gcfn.org or wd8qwr@arrl.net
Philip L. Carter, WD8QWR
wd8qwr@w8cqk.#cmh.oh.usa.na

Date: Fri, 25 Jul 2003 12:54:26 -0500 (CDT)
From: Dale Botkin <dale@botkin.org>
To: QRP list <qrp-l@Lehigh.EDU>
Subject: [154911] Re: Glue and toroids
Message-ID: <Pine.LNX.4.33.0307251253390.6314-100000@madmax.botkin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 25 Jul 2003, Ed Tanton wrote:

> You could use probably Duco, but I'd suggest getting some non-corrosive RTV
> (such as the Electronics-grade gasket silicone stuff sold at Auto-Parts
> stores.)

Hot-melt works well also.

72,
Dale - N0XAS
--

It's a thankless job, but I've got a lot of Karma to burn off.
PicoKeyer is available for the Rock-Mite! <http://www.hamgadgets.com>

Date: Fri, 25 Jul 2003 11:02:50 -0500
From: Lew Paceley <lew@paceley.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: g4ilo@qsl.net
Subject: [154912] Re: MFJ Cub 20m drift problem
Message-ID: <000401c352d5\$caadb800\$6501a8c0@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=Windows-1252
Content-transfer-encoding: 7BIT

Hi Julian,

The drift is a known characteristic of the Cub. There are several mods for the little guy, including improved QSK keying, most which can be found described here:

<http://www.qrparci.org/east/east.htm>

Enjoy the new rig OM!

72/73,
Lew
N5ZE

Date: Fri, 25 Jul 2003 12:57:02 -0500
From: w9ya <w9ya@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154913] Re: Glue and toroids
Message-ID: <200307251257.03055.w9ya@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Beeswax (the real stuff).

On Friday 25 July 2003 11:07 am, Jim Stamper wrote:

> Does anybody have any thoughts on duco cement or other glue that might be
> used to secure wound toroids after they have been soldered upright into a
> PCB? I'm looking for something to give added stability in case I
> accidentally hit one while working on the rest of the circuit.
>
> jim-
> KG4LDY

Date: Fri, 25 Jul 2003 13:01:26 -0500
From: "Brian Murrey - KB9BVN" <brian@iquest.net>
To: <khyberpass65@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154914] Re: My take on CW
Message-ID: <007901c352d6\$c499d240\$02fea8c0@bmurrey2K>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Garie let's turn your question around.

How many hams got their Extra at 20 wpm and never picked up a key again?

You can't FORCE someone to like something. Natural interest will eventually bring a person to the trough.

Most kids I know that were forced to eat spinach, won't touch the stuff as an adult. CW is not the glue holding Amateur Radio together....and keep in mind I operate CW about 98% of the time.

As long as CW is not outlawed, it will be used. It isn't going away. Now, we need to do OUR part and SHOW other hams how much FUN CW and QRP for that matter, is.

People are different. I enjoy CW, I somewhat enjoy other modes, and I can't stand SSB much because I have a hearing problem....most SSB ops sound like they have a sock in their mouth to me.

Go out and be an evangelist. Do CW and QRP Forums at your local hamfests. Demonstrate your JOY in the hobby and other will be attracted.

72

----- Original Message -----

From: "Garie Halstead K8KFJ" <khyberpass65@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, July 25, 2003 11:00 AM
Subject: Re: My take on CW

> --- Brian Murrey - KB9BVN <brian@iquest.net> wrote:
>
> > As long as CW isn't made an illegal mode, like spark gap, I don't
> > think making it a license requirement or not, will hurt the number
> of
> > CW ops out there. If that makes any sense.
>
> I'm not sure it makes sense to me Brian. It's already been stated

on
> this list that many people (myself included) learned the code
because
> it was a stepping stone for being licensed. I didn't want to learn
it
> but I knew it was a must in order for me to get on the air. After
> using it and coming somewhat proficient, I started liking it and
found
> it to be fun. Now, I am 95% CW and very comfortable at the higher
> speeds in DX contests.
>
> My point being...if I hadn't been *forced* to do it, I would have
> bypassed it (trust me) and would have never known how fun it was
(nor
> the pride in having developed a skill).
>
> My question to you is .. how do you envision new CW ops coming into
the
> hobby if they're not introduced to it via a mandatory test.
> Voluntarily learn it on their own because it might be kool? Sorry,
I
> just don't see that many doing that (especially after their initial
> frustration we all endured in learning it and gaining some speed).
I
> wish I were as optimistic as you Brian but sadly I'm not.
>
> 72, Gary -K8KFJ-
>
> -----
> Do you Yahoo!?
> Yahoo! SiteBuilder - Free, easy-to-use web site design software
> <http://sitebuilder.yahoo.com>
>

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Version: 6.0.504 / Virus Database: 302 - Release Date: 2003-07-24

Date: Fri, 25 Jul 2003 13:02:37 -0500
From: "Brian Murrey - KB9BVN" <brian@iquest.net>
To: <khyberpass65@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154915] Re: Code Rqm't comment

Message-ID: <008301c352d6\$eeef04ab0\$02fea8c0@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think he's saying that knowing CW doesn't make you an electronic whiz kid. I agree, as I am living proof.

72

----- Original Message -----

From: "Garie Halstead K8KFJ" <khyberpass65@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, July 25, 2003 11:07 AM
Subject: Re: Code Rqm't comment

> --- donovanhoggan@netscape.net wrote:
>
> > I'm not opposed to CW. I'm just
> > opposed to having it a requirement to operate on the HF bands.
> >
> > On the other hand, I'm not a proponent of watering down the
licensing
> > process.
>
> Hmmm...did you just now contradict yourself or did I miss
something?
> HI
>
> 72, Gary -K8KFJ-
>
> -----
> Do you Yahoo!?
> Yahoo! SiteBuilder - Free, easy-to-use web site design software
> <http://sitebuilder.yahoo.com>
>

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Version: 6.0.504 / Virus Database: 302 - Release Date: 2003-07-24

Date: Fri, 25 Jul 2003 13:03:09 -0500
From: "Brian Murrey - KB9BVN" <brian@iquest.net>
To: <n4xy@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154916] Re: Glue and toroids
Message-ID: <009501c352d7\$01eddbdf0\$02fea8c0@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I use hot glue.

----- Original Message -----

From: "Ed Tanton" <n4xy@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, July 25, 2003 12:15 PM
Subject: Re: Glue and toroids

> You could use probably Duco, but I'd suggest getting some
> non-corrosive RTV
> (such as the Electronics-grade gasket silicone stuff sold at
> Auto-Parts
> stores.) That's what I used on my K2. It has the advantages of not
> solvating any paint (or wire-enamel) and of being removable w/o
> structural
> damage-admittedly with some careful effort.
>
>
>
> 73 Ed Tanton N4XY <n4xy@earthlink.net>
>
> Ed Tanton N4XY
> 189 Pioneer Trail
> Marietta, GA 30068-3466
>
> website: <http://www.n4xy.com>
>
> All emails <IN> & <OUT> checked by
> Norton AntiVirus with AutoProtect
>
> LM: ARRL QCWA AMSAT & INDEXA;
> SEDXC NCDXA GACW QRP-ARCI
> OK-QRP QRP-L #758 K2 (FT) #00057

>
> -----
> "He that gives up a little liberty to gain
> temporary security will lose both and
> deserve neither".
> --Benjamin Franklin
>
> "Suppose you were an idiot ...
> and suppose you were a member of
> Congress... but I repeat myself."
> --Mark Twain
> -----
>
>
>

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.504 / Virus Database: 302 - Release Date: 2003-07-24

Date: Fri, 25 Jul 2003 18:13:19 GMT
From: hamjoel@juno.com
To: fpqrp-1@mpna.com, qrp-1@Lehigh.EDU
Subject: [154917] ON LINE REG... :-)
Message-ID: <20030725.111359.6091.165585@webmail13.lax.unttd.com>
Mime-Version: 1.0
Content-Type: text/plain

Thanks to all u what gave me some help..

I finally called the number on the screen ... which killed my computer connection... :-) and worked out the details with the friendly fcc person on the other end....

Ah should be renewed now... gonna save my last \$6.00 towards an arrl membership card once meaux...

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Date: Fri, 25 Jul 2003 11:28:21 -0700 (PDT)
From: Garie Halstead K8KFJ <khyberpass65@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154918] Re: My take on CW
Message-ID: <20030725182821.55108.qmail@web80503.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- Brian Murrey - KB9BVN <brian@iquest.net> wrote:

> Garie let's turn your question around.
>
> How many hams got their Extra at 20 wpm and never picked up a key
> again?

I know many in my Club who have upgraded and haven't touched a key since.

> You can't FORCE someone to like something. Natural interest will
> eventually bring a person to the trough.

Fingers crossed that's true.

> Now, we need to do OUR part and SHOW other hams how much FUN CW and
> QRP for that matter, is.

I must admit, I haven't done a very good job in that area. I have a tendency to help those that are struggling with CW and write the others off who haven't shown an interest. Not good.

> Go out and be an evangelist. Do CW and QRP Forums at your local
> hamfests. Demonstrate your JOY in the hobby and other will be
> attracted.

Sounds like good sound advise to me.

72, Gary -K8KFJ-

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<http://sitebuilder.yahoo.com>

Date: Fri, 25 Jul 2003 18:31:39 GMT
From: hamjoel@juno.com
To: qrp-1@Lehigh.EDU
Subject: [154919] CW AN'T THEP ROBLEM...
Message-ID: <20030725.113147.6091.165807@webmail13.lax.unttd.com>
Mime-Version: 1.0
Content-Type: text/plain

hIGH Y'all

my dear friend and u others.... :-)

any ham... even me.. can got themself on the air and send and receive cw with anyone who can send / receive good cw if there is an adequate s/n ratio....

keyboards do the typing, programs like cw-get do the receiving... 10, 20, 30 40 wpm and meaux.... don't need to kneaux one letter of morse to do this... these days.... so morse an't the problem

The problem, as ah sees it... the amateur community is fragmented now... started with that darn incentive stuffs and gotten worse ever since.... we needs something to tie us toghether again...

Look what qrp has done.. folk are building and having fun on the radio, they is talking together meaux...

CW is not an issue... period.... true it done passed its peak in popularity and priority for the commercial folks...however that's part of the life cycle of anyone or thing...

Include ur fellow ham in what u do...share and avery now and then maybe learn sumthin new... all is well and will be ok... its a hobby and as long as it stays a hobby and not claimed to be meaux than what it is... all will be well...

These are the "good ole days" of ham radio for most of us... let the fcc set the requirements and lettuce set the example by folling them rules and including averyone what met the "fcc requirements of the day" for dat licence... it's a hobby... don't make it sumthin it an't...

see... the problem an't cw at all...

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Date: Fri, 25 Jul 2003 11:35:12 -0700
From: "Lyle Johnson" <wa7gxd@fidalgo.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [154920] RE: My take on CW
Message-ID: <NEBBKGGNGLGOHDJKFAPHOECEKAA.wa7gxd@fidalgo.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> ...how do you envision new CW ops coming into the
> hobby if they're not introduced to it via a mandatory test.

Sorry, I gotta jump in again...

When I was a kid and wanted to get into ham radio, there was NO one to help me. No friends, no relatives. Dad encouraged me, but knew nothing about it. The guy up the street with the big antenna couldn't be bothered with a curious kid.

So I learned the code anyway. I was a Boy Scout and there was a Morse Code merit badge, so I talked a couple of friends into sending code by signal flags. We learned together. They weren't interested in ham radio, though. Transitioning from flags to sounds was hard. I'd dream at night about a zero-center meter with a little flag on it that could tell a dit from a dah and move the little flag appropriately...

Dad found a Ham in my church willing to administer the Novice exam. I set up my station. No help. Tried making come CW contacts. No luck. Gave up.

Bought a Heathkit Two'er from my allowance money (\$5/month when you are 14 is a lot of money - at least it was when I was 14). Built it and got on local VHF (no repeaters back then). Made a few friends.

Friends came over and discovered my lightning arrestor (gotta have one of those, right?) was miswired and my antenna was a short at the end of my coax.

That explained why my Globe Chief 90 arced when I tried to tune it up to 75 watts! I had kept it at about 20-30 watts when I tried to unsuccessfully make contacts. The shorted coax let me receive some, though, so I never suspected it was my antenna...

But my Novice license had expired (couldn't renew it in those days). Got my Tech. No HF privileges, and NO ONE on VHF in those days used CW. Even if they did, my Two'er couldn't copy it. So I yakked into a microphone, made friends and had fun. QRP AM on two meters.

Dad tried to find a local ham club. Went to a RACES meeting. Everyone there had more money than I did. They had Gonsett Communicators, and I had a crummy Heathkit Two'er. Plus, I was younger than anyone else at that meeting by at least 20 or 30 years. They had no time for a kid.

By the time I got into High School, I found a couple more hams in the school. But I was a Freshman and they weren't, so that ended that.

Finally got my General and then my Advanced in my Senior year. Self taught. Had to travel a long way to get to the FCC examiner. Got my Extra decades later, just to do it. The mandatory 20 WPM test didn't make me a CW op. But it helped delay me getting an Extra for 23 years.

Bottom line: making CW a test requirement has absolutely nothing to do with whether a person enjoys CW or not.

Worried that having a CW requirement will mean that the unwashed masses will pollute the HF spectrum because they weren't properly hazed? Concerned that this is all just a conspiracy by the equipment makers to expand their markets and make millions?

Sorry, but that is a croc... er, a very poor excuse.

You want more CW activity? Keep the mode alive?

Find a kid and show some *interest* in him or her. Look around in your family, church, synagogue, temple, mosque, nearest middle school, neighborhood, Boy or Girl Scout troop, Big Brothers or Big Sisters organization, midnight basketball group...

Elmer her. If she sees you are kind, and willing to help her understand things, and that you *enjoy* CW, she will fall over backwards to learn CW just to get your approval. And may end up enjoying it no end.

Doesn't matter if it is required for a license or not.

Take it from one who didn't have an elmer.

Make a difference in some kid's life. Get proactive. You'll both benefit.

And it is a lot more constructive use of your energy than lobbying the ARRL to pressure the FCC to not do what they're going to do anyway. Or worrying about it.

-Lyle KK7P

PS - on the Icom website there is a great comic book about ham radio, and a coloring book format, too, that you can download and print out for free. Guess what my grandkids will be coloring when they come over to visit?

Date: Fri, 25 Jul 2003 19:35:32 +0100 (BST)
From: J.Bennett@lboro.ac.uk
To: jstamper@shentel.net, Jim Stamper <jstamper@shentel.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [154921] Re: Glue and toroids
Message-ID: <1059158132.3f21787489396@staff-webmail.lboro.ac.uk>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 8bit

Hi Jim,

I can't comment on "Duco Cement" as I am not familiar with it. I always use "Hot Glue" and have had no problems.

72,

Jack
G3PVG

Quoting Jim Stamper <jstamper@shentel.net>:

> Does anybody have any thoughts on duco cement or other glue that might
> be
> used to secure wound toroids after they have been soldered upright into
> a
> PCB? I'm looking for something to give added stability in case I
> accidentally hit one while working on the rest of the circuit.
>
> jim-
> KG4LDY
>
>
>

Date: Fri, 25 Jul 2003 11:49:26 -0700 (PDT)
From: Curt Milton <wb8yyy@yahoo.com>

To: k6hcj@juno.com,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [154922] Re: 38 Special-warble
Message-ID: <20030725184926.14628.qmail@web21409.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Marv, this pot only controls a varactor and it should not get warm! if you want to make sure oscillator is working, just listen to it on your receiver! i would check everything carefully to make sure you don't have a metal fragment, etc. shorting something out. this does not make sense. i also believe some troubleshooting voltages for 38S were located at the norcal website.

curt wb8yyy

--- Marv Fagenson <k6hcj@juno.com> wrote:
> Tnx to all who responded. There's 8VDC across the
> pot and varying the
> voltage changes the fq. I suspect that there is
> toomuch power
> dissipation across the pot. As the pot gets warm,
> the r value changes
> thus changing the frequency. Does this sound
> feasible?
> Marv Fagenson
> k6hcj@Juno.com
>
>
>

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Date: Fri, 25 Jul 2003 15:12:25 -0400
From: Robin Kidd <robink@us.ibm.com>

To: qrp-1@Lehigh.EDU
Subject: [154923] RE: My take on CW
Message-ID: <0F64E315C0.DFD5682A-0N85256D6E.0068B02D-85256D6E.0069821D@us.ibm.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

<rant on>

You know I find this very interesting. Before I got my Technician I joined a local ham club. What I found was that the hams there were more interested in what contest was this week-end or how much power they could squeeze out of their current expensive rig. I finally quit the club after much frustration. I studied CW and books. I went from Technician to Extra in about 3 months. I say all this not to brag but to alert the ham community that there are a lot people going it "alone" these days. Also a lot of the "new" hams are really getting a bad taste from all of the bickering that is going on in this "hobby". I have to say that I have really met some of the best people during my CW contacts on the bands - they have been a big help. Also email lists like this one provide me with a wealth of information about most of the things I have had questions about.

</rant off>

Regards,

Robin J. Kidd
KG4RSQ

Remember, the Ark was created by inspired amateurs but the Titanic was created by professionals...

Internet: robink@us.ibm.com
Phone: 770.835.3596(T/L 596)

Date: Fri, 25 Jul 2003 19:27:38 +0000
From: "Terry Permenter" <top@whidbey.com>
To: qrp-1@Lehigh.EDU
Subject: [154924] RE: My take on CW (quit the club after much frustration)
Message-ID: <E19g8IA-0002Ea-0y@mail5.whidbey.net>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Robin, et al:

While you were frustrated at your ham club, another new ham was probably frustrated because the club they joined did nothing but CW, when they really were interested in contesting... I think that what makes ham radio such a unique hobby is that it is really many different hobbies at once - CW, ragchewing, digital modes, direction finding, construction, contesting, you name it! =20

(I think almost any club could be improved by adding some balance to their activities! If your club is all contest, how about trying some construction? If you are all CW, how about trying direction finding?)

72, Terry K7OI
(keeping fire extinguisher nearby!)

On 7/25/2003, "Robin Kidd" <robink@us.ibm.com> wrote:

>
>
>
>
><rant on>
>You know I find this very interesting. Before I got my Technician I joined
>a local ham club. What I found was that the hams there were more
>interested in what contest was this week-end or how much power they could
>squeeze out of their current expensive rig. I finally quit the club after
>much frustration. I studied CW and books. I went from Technician to Extra
>in about 3 months. I say all this not to brag but to alert the ham
>community that there are a lot people going it "alone" these days. Also a
>lot of the "new" hams are really getting a bad taste from all of the
>bickering that is going on in this "hobby". I have to say that I have
>really met some of the best people during my CW contacts on the bands -
>they have been a big help. Also email lists like this one provide me with
>a wealth of information about most of the things I have had questions
>about.
></rant off>
>
>Regards,
>
>Robin J. Kidd
>KG4RSQ
>
>Remember, the Ark was created by inspired amateurs but the Titanic was
>created by professionals...
>
>Internet: robink@us.ibm.com

>Phone: 770.835.3596(T/L 596)

>

>

>

Date: Fri, 25 Jul 2003 09:37:36 -0400
From: "Francisco Hernandez Alonso" <co2ha@jovencclub.cu>
To: <qrp-l@Lehigh.EDU>
Subject: [154925] RV: PIC Elmer Series?
Message-ID: <E19g8WG-000AHS-00@tinored.jcce.org.cu>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi, all!!!

Please count me in on this too!

Nice and simple breadboarding system for several PIC 16cXX family is described by Fred Eady in MicroComputer Journal Jan/Feb 1995...

72/73 es DX
Frank C02HA, Internet QRP-L#1486, EL83td
co2ha@jovencclub.cu <http://frc.co.cu>

Date: Fri, 25 Jul 2003 16:14:02 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [154926] Re: Making etched circuit boards ??? somewhat OT.
Message-ID: <5.1.1.6.1.20030725160138.00b1c448@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 08:48 AM 7/25/2003 -0400, you wrote:

>62.00 seems like a lot for a first try board. Maybe if I were going
>into the business of building power supplies, I might consider such a
>prototype, but for a single board?

>

>Fortunately there is a simpler way. There are board layout programs
>that allow you to print out the layout. Then xerox them and transfer
>them to a clean board surface. These are then etched in PC board
>etchant and after washing, are ready to use.

>

>I am not at home so I cannot give you names, but I know they work, I
>have used them.

Bruce,

Digi-Key sells "toner transfer" paper for doing what you describe. Also, I have instructions for a home-made version of the transfer paper at <http://home.att.net/~wd8civ/pcbcheap.html>. For a beginner I'd recommend the commercial product because quality will be more consistent.

Toner transfer works best (IMHO) for single-sided boards, but with a little trickery and some really wide tape you can make a board that has circuit traces on one side and a solid ground plane on the other.

Dave

Dave Hinerman
WD8CIV@att.net

Date: Fri, 25 Jul 2003 15:19:23 -0500
From: Michael Goins <mgoins@usa.net>
To: <qrp-l@lehigh.edu>
Subject: [154927] FOR SALE UPDATE
Message-ID: <349HgyuTw2496S18.1059164363@uwdvg018.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable

Thanks, guys. The CP-36 power supply, Mirage MP-1 Wattmeter, and Z-11 QRP=
tuner are all sold (as of now). For those who asked, the move may be to
dead-center in the middle of Kansas. Will know after Monday. =

Still available:

FT-817 =E2=80=93 Used for about ten contacts on 2 meters. I=E2=80=99ve ne=
ver used =

(bought
as HF backup). Original box, and includes a W4RT modified mike with the S=
uper
Big Punch (Big Punch modification and the Heil HC-4 element). =

\$600.00 =

FT-817 SSB filter, 2.5 KHz from Expanded Spectrum Systems. New, never installed.

\$75.00

MFJ Hi-Q 10-30 MHz Deluxe Loop, model #1786, with control box and wall wart.

Heavy =E2=80=93 Houston area pick only =

\$250.00

Grundig Traveler SW Receiver, TR-II digital model, original box =

\$75.00

Idiom Press Logikit Keyer, CMOS-4 model. Like new. 5-60 wpm, Four active messages plus 8 additional "banked" messages (1020 characters total), does

contest numbering, runs on three AAA batteries.

\$75.00

WM-2 Wattmeter, excellent condition =

\$80

Please reply direct only. Can deliver/meet in the Greater Houston area. Thanks.

72,

mike

wb5yjx

100% Solar station: SW20+, SW30+, NE4040, RockMite40

Mobile: FT-817 @ 1 watt, CW and SSB

QRP-ARCI 3922 (former managing editor, QRP Quarterly), =

SOC 54, Flying Pig 447, QRP-L 2130, Adventure Radio 810, Alaska QRP 514, QCWA 30857

"Share what you know, learn what you don't."

Date: Fri, 25 Jul 2003 16:40:01 -0400
From: Brad Thompson <Brad.Thompson@valley.net>
To: w6toy@erols.com,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [154928] Re: Making etched circuit boards ??? somewhat OT.
Message-ID: <5.0.2.1.2.20030725161039.0222a270@pop3.norton.antivirus>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello--

Thanks for your comments. For a single power supply, I'd build a rectifier string on a piece of turret-lug board and not bother with a printed-circuit board at all. For more-complex one-of-a-kind prototypes, I'd go with either Wire-wrap (tm) technology, or for RF and analog circuits use isolated pads cut into a copperclad ground plane (cf. the NJQRP "Islander" tool, or use an auto-body spotweld cutter, or even a modified brad-point drill bit).

However, for printed-circuit boards the OM who asked the original question might find it easier and also educational to download the free software and lay out a board or two, just to get the feel of the process, even if he never commits to ordering the boards.

I forgot to mention it, but ExpressPCB's layout software allows one to print a 1:1 scaled copy of the silk-screen layout. You can superimpose a copy on a piece of conductive plastic foam and "stuff" the layout by poking components leads through the print. That will give you an idea of whether your layout has any component-interference problems.

IIRC, the layout paper is called "Blue Tek" or something similar. It acts as a transfer medium for laser-printer or photocopier toner. You print to the paper and then iron the pattern onto the copperclad, and then etch. Problems include poor adhesion of the toner unless the copper is spotlessly clean and the traces are applied at an elevated

temperature. Also
hairline fractures can occur in the traces.

There is (or was) a dry-transfer medium (Datak?) which featured pad patterns on a wax-paper carrier. You applied the patterns by burnishing them onto the copperclad. In my experience, heated etchant sometimes caused pads to fall off, ruining the board.

One can also use electrical tape to lay out traces on a board, or transparent shipping tape which you cut into pads and traces, and then peel everything but the desired traces. You can even use certain inks and cutdown marking pens in an X-Y pen plotter and draw traces directly onto the copperclad. People familiar with silkscreen methods tell me that one can silk-screen acid-resistant paint onto copperclad, etch, and then clean away the resist with paint solvent.

And if you have some time and money to invest, you can buy or build a servo-controlled plotter that drives a cutting bit, which hogs away copper everywhere you don't want it.

While I haven't priced etchant and photosensitized unetched PC-board laminate lately, I suspect that by the time you invest in the chemicals, image-transfer media (clear plastic film), trays, a heat source, an air pump for bubbling the etchant, a couple of new shirts, dinner for the XYL to make amends for the stained counter-top, etc., you've invested a fair amount of money. Plus, you still need to drill component-lead holes in the board, and if the board has traces on both sides, the holes aren't plated through.

I agree that making one's own printed-circuit boards is educational and also a useful skill to have, but one's time is valuable, too, and getting three finished, professional-quality PC boards for \$62.00 doesn't compare at all unfavorably with the DIY route.

In the long run, it probably doesn't matter what method you use, as long as you get results to your satisfaction-- and keep building!

73--

Brad AA1IP

At 08:48 AM 07/25/2003 -0400, Bruce Muscolino wrote:

>62.00 seems like a lot for a first try board. Maybe if I were going
>into the business of building power supplies, I might consider such a
>prototype, but for a single board?

>

>Fortunately there is a simpler way. There are board layout programs
>that allow you to print out the layout. Then xerox them and transfer
>them to a clean board surface. These are then etched in PC board
>etchant and after washing, are ready to use.

>

>I am not at home so I cannot give you names, but I know they work, I
>have used them.

>

>73

Date: Fri, 25 Jul 2003 17:12:17 -0400

From: "John L. Sielke" <jsielke@pobox.com>

To: qrp-l@lehigh.edu

Subject: [154929] RE: My take on CW (quit the club after much frustration)

Message-ID: <oprsvw6ruan9p1ib@smtp.comcast.net>

Content-Type: text/plain; charset=iso-8859-15; format=flowed

MIME-Version: 1.0

> (I think almost any club could be improved by adding some balance to
> their
> activities! If your club is all contest, how about trying some
> construction?
> If you are all CW, how about trying direction finding?)

The AMQrp Club can get on the bandwagon ahead of everyone. They can have a
"How to Restore your SB-220" session. Or "My OTHER QRP Rig is a KWS-1."

Neat!

John W2AGN

Date: Fri, 25 Jul 2003 16:51:21 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: Philip L Carter <pcarter@gcfn.org>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [154930] Re: on line lic reg...
Message-ID: <3.0.6.32.20030725165121.007bec20@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Just don't lose the license or someone else can become you. It's like
>putting your PIN number on the back of your bank card.
>
No, not nearly. Even if someone found the numbers AND knew what to do with
them, not much they could do with them anyway. Change my address maybe?
72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Fri, 25 Jul 2003 16:30:19 -0500
From: "Harley Miller" <hmliller106@kc.rr.com>
To: "QRP List" <qrp-L@Lehigh.edu>
Subject: [154931] PIC Elmer Series
Message-ID: <001901c352f3\$f2fcf320\$ef141a41@kc.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Include me in the pic series.

Harley L. Miller
WB0ROQ

Date: Fri, 25 Jul 2003 15:00:02 -0700
From: "Lyle Johnson" <wa7gxd@fidalgo.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [154932] RE: Making etched circuit boards ??? somewhat OT.
Message-ID: <NEBBKGGNGLG0HDJJKFAPHEEOJEKAA.wa7gxd@fidalgo.net>
MIME-Version: 1.0
Content-Type: text/plain;

charset="us-ascii"
Content-Transfer-Encoding: 7bit

Alberta Printed Circuits (www.apcircuits.com) doesn't have a 3-piece minimum, is cheap and fast as long as you follow their rules.

If you do a group thing, you can get 5 boards with soldermask, silkscreen, etc. for \$100 total (including shipping) from lots of places, including www.pcbnet.com

No financial interest, satisfied customer, etc.

-Lyle KK7P

Date: Fri, 25 Jul 2003 18:19:46 -0400
From: "Nick Foster" <nfoster@bluefinrobotics.com>
To: "Qrp-L" <qrp-l@Lehigh.EDU>
Subject: [154933] FM beacon transmitter
Message-ID: <KCEELBIJBDLMCOBMHIKMMEJHCEAA.nfoster@bluefinrobotics.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all,

I'm trying to construct a simple, 1 or 2 watt FM beacon for the 160MHz marine band, and I'm finding myself desperately needing an Elmer's helping hand. I've got the oscillator working great and the FM as well, but I'm having trouble with other sections.

I've got a thousand little questions about VHF design and measurement techniques, and I'd love to have someone I could pester with them. =)

There's just such a difference between "senior electrical engineer" and "senior in electrical engineering at university". *g*

Thanks,
Nick Foster

End of QRP-L Digest 2992
